

Hello, Dolly!

Michael Stewart, Jerry Herman

Final PSE Package

Trollwood Performing Arts School



Production Manager: Bryan Duncan
Production Stage Manager: Heather Olcott
Sound Designer: Christian Ekren
Sound Mixers: Mitchel Rieth & April P.
Mic Wranglers: Vanessa R. & Tate T.

Theatre Load-In: June, 2018
Tech: July 2, 2018 – July 11, 2018
Performances: July 12 – 14; 18 – 21; 24 – 29 (8:30pm)
Strike: July 30, 2018 – Aug 2, 2018

"Hello,
Dolly!"

Bluestem
Amphitheatre

Trollwood
Performing
Arts School

July, 2018

ORIGINAL
DRAWING
BY:
CHRISTIAN
EKREN

SOUND
DESIGN:
CHRISTIAN
EKREN

SOUND
MIXERS:
MITCHEL
RIETH
APRIL P.

MIC
WRANGLERS:
VANESSA R.
TATE T.

SYSTEM
ONE LINE

DATES:

Theatre Load In:
JUNE 1ST – JULY
1ST, 2018

Tech:
JULY 2ND – 11 TH,
2018

Perfor mance:
JULY 12TH – JULY
29 TH, 2018

Strike:
JULY 30TH –
AUGUST 2ND, 2018

REVISION:

1st LOOK:
JUNE 1ST, 2018

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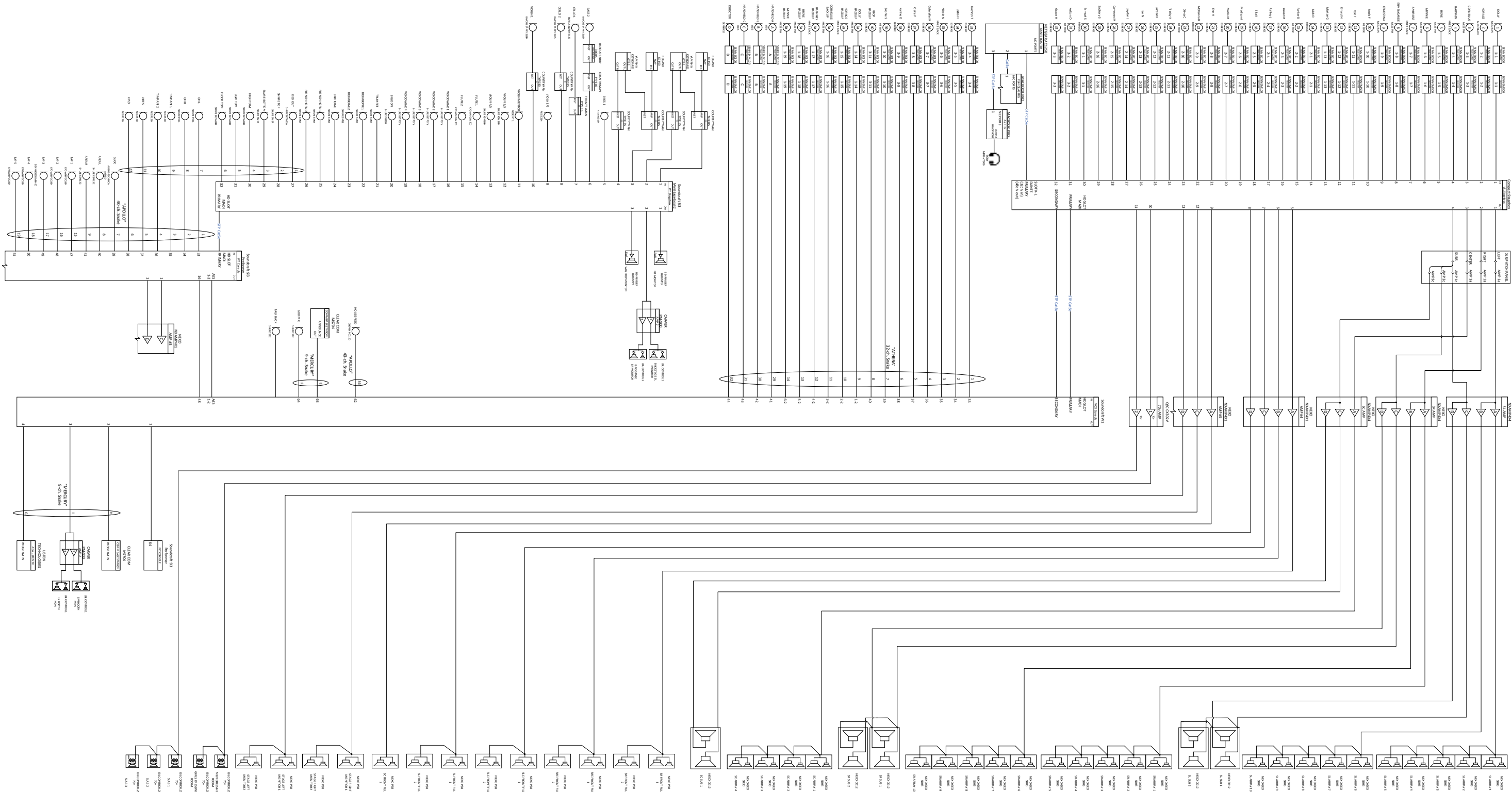
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DATE:
JULY 23RD, 2018

SCALE:
NO SCALE

PLATE #:

2



“Hello,
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RF ONE
LINE

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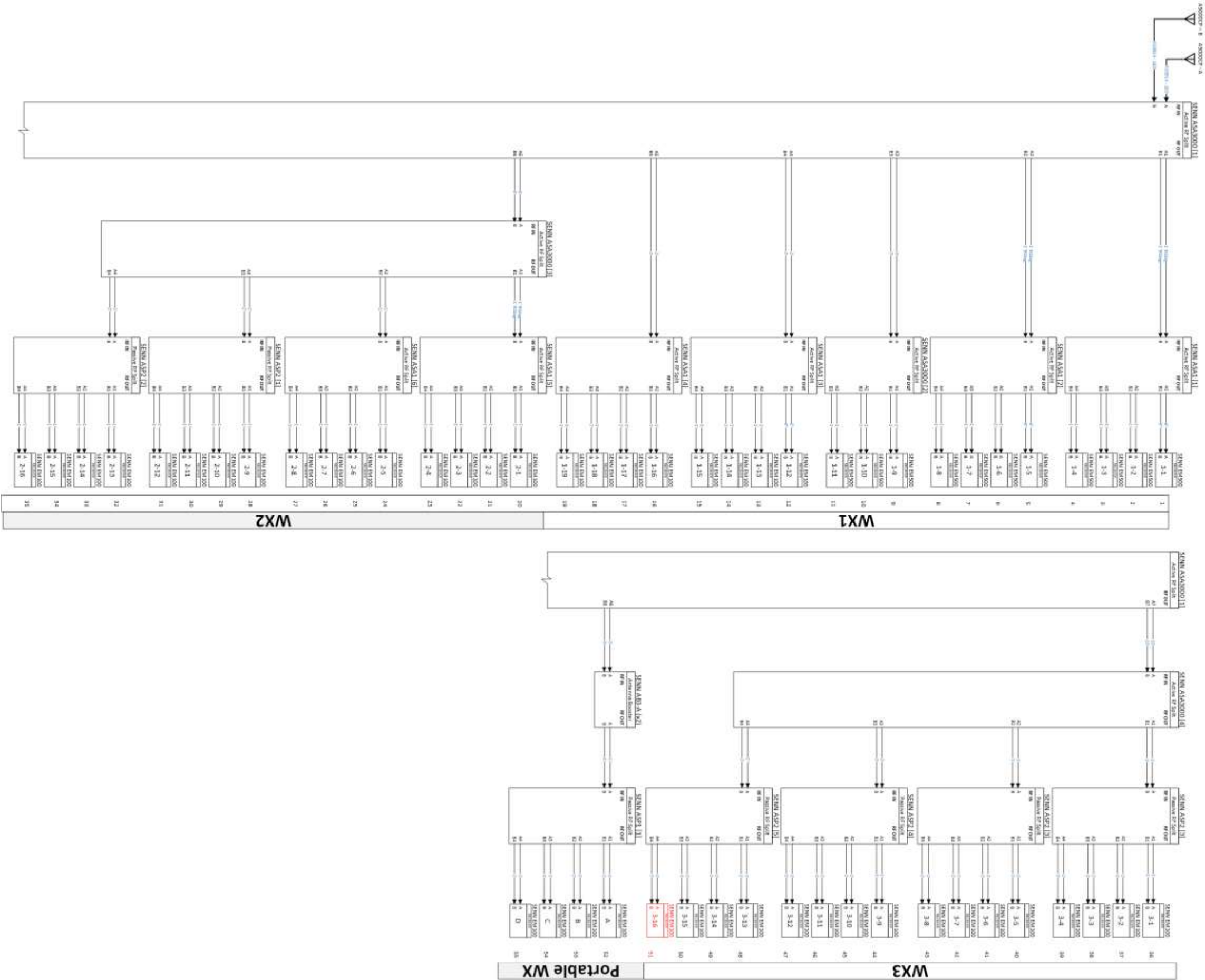
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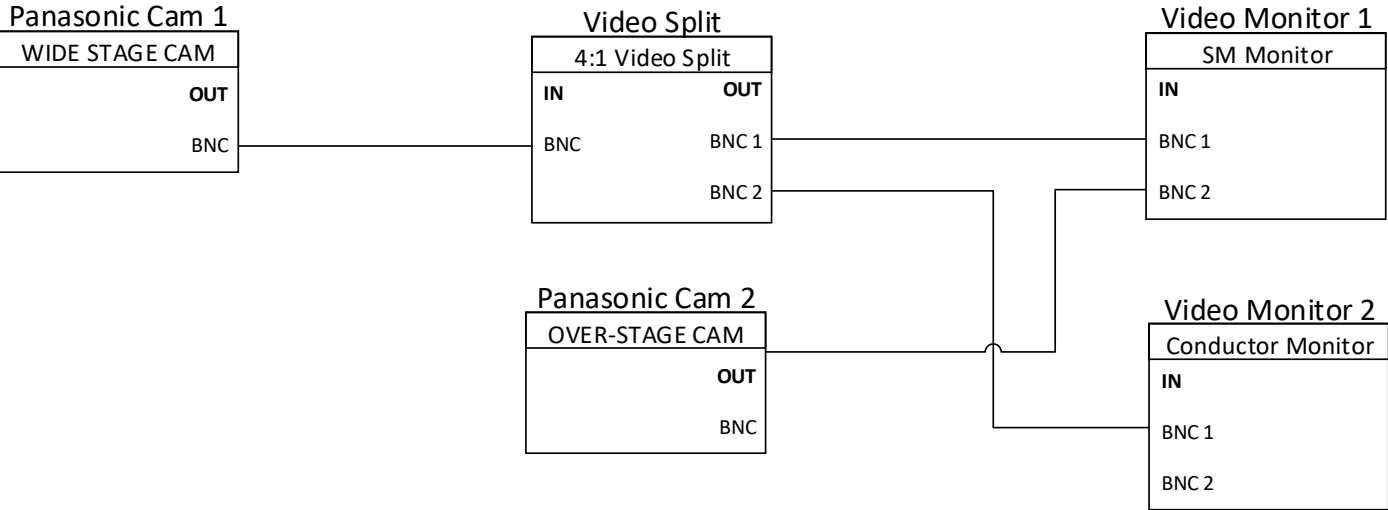
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PLATE#:

3





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July, 2018

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**VIDEO
ONE LINE**

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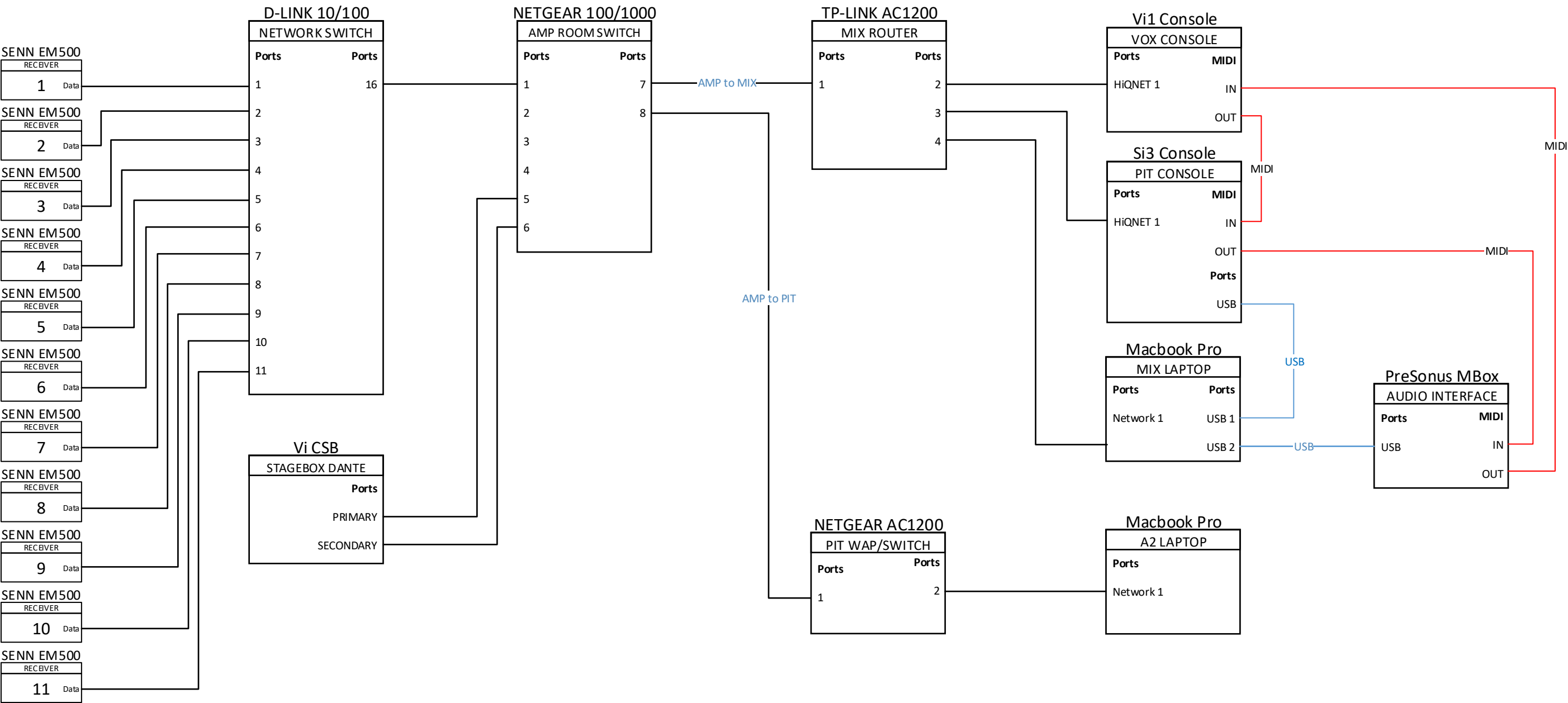
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PLATE #:

4



Vocal Console INPUT Patch

Channel	Source	Patch	Input	Actor	Character	Choru	Vocal Part
Inputs							
1	EW500-G3 1-1	Ethernet	CSB A1		DOLLY		A
2	EW500-G3 1-2	"	CSB A2		HORACE		B
3	EW500-G3 1-3	"	CSB A3		CORNELIUS		T
4	EW500-G3 1-4	"	CSB A4		BARNABY		B
5	EW500-G3 1-5	"	CSB A5		IRENE		A
6	EW500-G3 1-6	"	CSB A6		MINNIE		S
7	EW500-G3 1-7	"	CSB A7		AMBROSE	B	T
8	EW500-G3 1-8	"	CSB A8		ERMENGARDE		S
9	EW500-G3 1-9	"	CSB A9		ERNESTINA		A
10	EW500-G3 1-10	"	CSB A10		JUDGE	A	B
11	EW500-G3 1-11	"	CSB A11			A	B
12	EW100-G3 1-12	"	CSB A12			A	T
13	EW100-G3 1-13	"	CSB A13			A	T
14	EW100-G3 2-1	"	CSB A14			A	T
15	EW100-G3 2-2	"	CSB A15		REPORTER	A	T
16	EW100-G3 2-3	"	CSB A16			A	T
17	EW100-G3 2-4	"	CSB C1			A	A
18	EW100-G3 2-5	"	CSB C2			A	A
19	EW100-G3 2-6	"	CSB C3			A	A
20	EW100-G3 2-7	"	CSB C4			A	A
21	EW100-G3 2-8	"	CSB C5			A	S
22	EW100-G2 2-9	"	CSB C6			A	S
23	EW100-G2 2-10	"	CSB C7			A	S
24	EW100-G2 2-11	"	CSB C8			A	S
25	EW100-G2 2-12	"	CSB C9		RADOLPH	B	B
26	EW100-G2 2-13	"	CSB C10		COP	B	B
27	EW100-G2 2-14	"	CSB C11		COP	B	B
28	EW100-G2 2-15	"	CSB C12			B	B
29	EW100-G2 2-16	"	CSB C13		POLICEMAN	B	T
30	EW100-G2 3-1	"	CSB C14			B	T
31	EW100-G2 3-2	"	CSB C15			B	T
32	EW100-G2 3-3	"	CSB C16			B	A
33	EW100-G2 3-4	Athena 1	Local 1			B	A
34	EW100-G2 3-5	Athena 2	Local 2			B	A
35	EW100-G2 3-6	Athena 3	Local 3			B	A
36	EW100-G2 3-7	Athena 4	Local 4		COP	B	S
37	EW100-G2 3-8	Athena 5	Local 5		B	S	
38	EW100-G2 3-9	Athena 6	Local 6		B	S	
39	EW100-G2 3-10	Athena 7	Local 7		B	S	
40	EW100-G2 3-11	Athena 8	Local 8	Backup/Prop			
41	EW100-G2 A	Athena A	Local 15	HH1			
42	EW100-G2 B	Athena B	Local 16	HH2			
43	EW100-G2 C	Athena C	Local 17	HH3			
44	EW100-G2 D	Athena D	Local 18	HH4/Director			
45	Tap	->	Local 19				
46	Pit L	->	Local AES 1				
47	Pit R	->	Local AES 2				
48	Pit S	->	Local 22				
49	Qlab L	Ethernet	Dante 1				
50	Qlab R	"	Dante 2				
51	Qlab C	"	Dante 3				
52	Qlab Subs	"	Dante 4				
53	Qlab FF1	"	Dante 5				
54	Qlab FF2	"	Dante 6				
55	Qlab FF3	"	Dante 7				
56	Qlab FF4	"	Dante 8				
57	Qlab FF5	"	Dante 9				
58	Qlab Stg Mon 1	"	Dante 10				
59	Qlab Stg Mon 2	"	Dante 11				
60	FX1 Rtn	Internal	FX1				
61	FX2 Rtn	Internal	FX2				
62	PCC160 [House Feed]	Apollo 36	Local 30				
63	Announce In	Mercury E	Local 31				
64	God Mic	Mercury F	Local 32				
Alternative Inputs (IN2)							
1 (IN2)	EW100-G3 1-14	Athena 9	Local 9		DOLLY BU1		
2 (IN2)	EW100-G3 1-15	Athena 10	Local 10		HORACE BU2		
3 (IN2)	EW100-G3 1-16	Athena 11	Local 11		CORNELIUS BU3		
4 (IN2)	EW100-G3 1-17	Athena 12	Local 12		BARNABY BU4		
5 (IN2)	EW100-G3 1-18	Athena 13	Local 13		IRENE BU5		
6 (IN2)	EW100-G3 1-19	Athena 14	Local 14		MINNIE BU6		
Direct Contribution Inputs							
MTX 1	Qlab 70v Dressing Rooms	Ethernet	Dante 12				
MTX 2	Qlab 70v Slab	"	Dante 13				
MTX 7	Qlab Booth Mon	"	Dante 14				
MTX 8	Qlab Ass. Listen	"	Dante 15				

Vocal Console OUTPUT Patch

Channel	Type	Output	Patch	Input	Description
Outputs					
L	MAIN	CSB E1	Ethernet	NEXO Amp 1 C	SR Array
R	"	CSB E2	"	NEXO Amp 3 C	SL Array
C	"	CSB E3	"	NEXO Amp 2 C	C Array
16	GRP	CSB E4	"	NEXO Amps 1-3 A	Subs
9	AUX	CSB E5	"	NEXO Amp 4 A	Front Fill SR
10	"	CSB E6	"	NEXO Amp 4 B	Front Fill SRC
11	"	CSB E7	"	NEXO Amp 4 C	Front Fill SLC
12	"	CSB E8	"	NEXO Amp 4 D	Front Fill SL
13	"	CSB E9	"	NEXO Amp 4 A	Front Fill SC
17	MTX	CSB E10	"	QSC CX301v 1	Dressing Room 70v
18	"	CSB E11	"	QSC CX301v 2	Slab 70v
2	AUX	CSB E12	"	NEXO Amp 5 B	Stg Mon 1
3	"	CSB E13	"	NEXO Amp 5 B	Stg Mon 2
1	AUX	Local 1	->	Si3 Local In 32	Vox Feed
1	Aux	Local 2	Mercury H	ClearCom MS704	Sue Comm Vox Feed
23	"	Local 3	Mercury I	Carver 1/2 (SPLIT)	Booth Monitors
24	"	Local 4	Mercury G	Listen Tx	Assisted Listening
7	AUX	FX1	Internal		VoxVerb Send
8	"	FX2	"		VoxVerb Send 2
Direct Outputs					
1	D. Out	Dante Out [Vi] 1	Ethernet	Dante In [MacBook] 1	
2	D. Out	Dante Out [Vi] 2	"	Dante In [MacBook] 2	
3	D. Out	Dante Out [Vi] 3	"	Dante In [MacBook] 3	
4	D. Out	Dante Out [Vi] 4	"	Dante In [MacBook] 4	
5	D. Out	Dante Out [Vi] 5	"	Dante In [MacBook] 5	
6	D. Out	Dante Out [Vi] 6	"	Dante In [MacBook] 6	
7	D. Out	Dante Out [Vi] 7	"	Dante In [MacBook] 7	
8	D. Out	Dante Out [Vi] 8	"	Dante In [MacBook] 8	
9	D. Out	Dante Out [Vi] 9	"	Dante In [MacBook] 9	
10	D. Out	Dante Out [Vi] 10	"	Dante In [MacBook] 10	
11	D. Out	Dante Out [Vi] 11	"	Dante In [MacBook] 11	
12	D. Out	Dante Out [Vi] 12	"	Dante In [MacBook] 12	
13	D. Out	Dante Out [Vi] 13	"	Dante In [MacBook] 13	
14	D. Out	Dante Out [Vi] 14	"	Dante In [MacBook] 14	
15	D. Out	Dante Out [Vi] 15	"	Dante In [MacBook] 15	
16	D. Out	Dante Out [Vi] 16	"	Dante In [MacBook] 16	
17	D. Out	Dante Out [Vi] 17	"	Dante In [MacBook] 17	
18	D. Out	Dante Out [Vi] 18	"	Dante In [MacBook] 18	
19	D. Out	Dante Out [Vi] 19	"	Dante In [MacBook] 19	
20	D. Out	Dante Out [Vi] 20	"	Dante In [MacBook] 20	
21	D. Out	Dante Out [Vi] 21	"	Dante In [MacBook] 21	
22	D. Out	Dante Out [Vi] 22	"	Dante In [MacBook] 22	
23	D. Out	Dante Out [Vi] 23	"	Dante In [MacBook] 23	
24	D. Out	Dante Out [Vi] 24	"	Dante In [MacBook] 24	
25	D. Out	Dante Out [Vi] 25	"	Dante In [MacBook] 25	
26	D. Out	Dante Out [Vi] 26	"	Dante In [MacBook] 26	
27	D. Out	Dante Out [Vi] 27	"	Dante In [MacBook] 27	
28	D. Out	Dante Out [Vi] 28	"	Dante In [MacBook] 28	
29	D. Out	Dante Out [Vi] 29	"	Dante In [MacBook] 29	
30	D. Out	Dante Out [Vi] 30	"	Dante In [MacBook] 30	
31	D. Out	Dante Out [Vi] 31	"	Dante In [MacBook] 31	
32	D. Out	Dante Out [Vi] 32	"	Dante In [MacBook] 32	
33	D. Out	Dante Out [Vi] 33	"	Dante In [MacBook] 33	
34	D. Out	Dante Out [Vi] 34	"	Dante In [MacBook] 34	
35	D. Out	Dante Out [Vi] 35	"	Dante In [MacBook] 35	
36	D. Out	Dante Out [Vi] 36	"	Dante In [MacBook] 36	
37	D. Out	Dante Out [Vi] 37	"	Dante In [MacBook] 37	
38	D. Out	Dante Out [Vi] 38	"	Dante In [MacBook] 38	
39	D. Out	Dante Out [Vi] 39	"	Dante In [MacBook] 39	
46	D. Out	Dante Out [Vi] 40	"	Dante In [MacBook] 40	PIT L
47	D. Out	Dante Out [Vi] 41	"	Dante In [MacBook] 41	PIT R
48	D. Out	Dante Out [Vi] 42	"	Dante In [MacBook] 42	PIT SUB

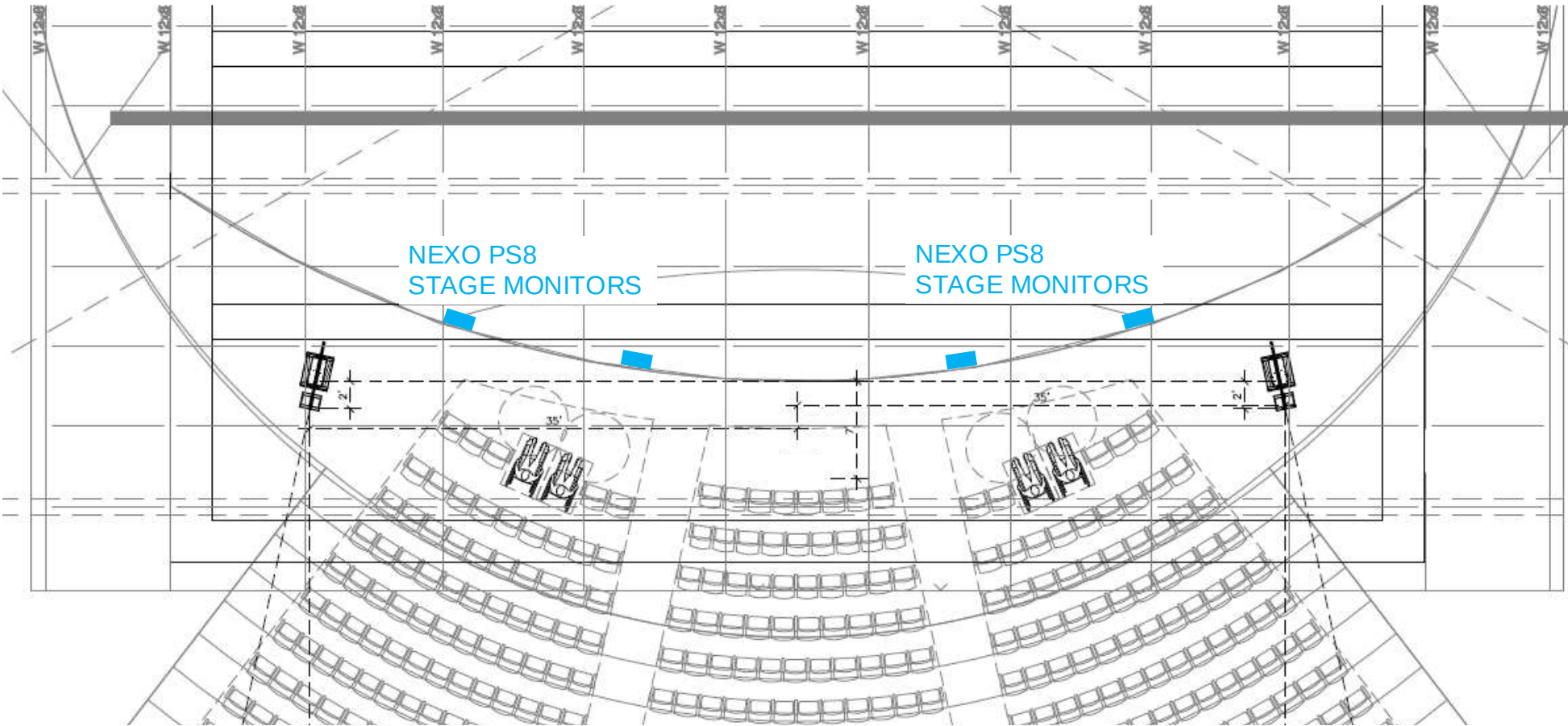
Pit Console INPUT Patch

Channel	Source	Patch	Input	Description
Inputs				
1	DI	Ethernet	MSB A1	Key 1L
2	DI	"	MSB A2	Key 1R
3	DI	"	MSB A3	Key 2L
4	DI	"	MSB A4	Key 2 R
5	AT Clip-On	"	MSB A5	Bass 1
6	Barcus Berry -> DI	"	MSB A6	Bass 2
7	Barcus Berry -> DI	"	MSB A7	Cello 1
8	Barcus Berry -> DI	"	MSB A8	Cello 2
9	AKG C214	"	MSB A9	Viola 1/2
10	Barcus Berry -> DI	"	MSB A10	Violin 1
11	Shure KSM109	"	MSB A11	Violin 2/3
12	Shure KSM109	"	MSB A12	Violin 4/5
13	Crown GLM200	"	MSB A13	Flute 1
14	Crown GLM200	"	MSB A14	Flute 2
15	Shure Beta57a	"	MSB A15	Woodwind 1
16	Shure Beta57a	"	MSB A16	Woodwind 2
17	Shure Beta57a	"	MSB C1	Woodwind 3
18	Shure Beta57a	"	MSB C2	Woodwind 4
19	Shure PG98H	"	MSB C3	Basoon
20	Shure SM58	"	MSB C4	Trumpet
21	Shure SM58	"	MSB C5	Trombone 1
22	Shure SM58	"	MSB C6	Trombone 2
23	Shure SM57	"	MSB C7	Baritone
24	Shure SM57	"	MSB C8	French Horn 1
25	Shure SM57	"	MSB C9	French Horn 2
26		"	MSB C10	
27	Shure Beta52a	"	MSB C11	Kick Out
28	Shure SM57	"	MSB C12	Snare Top
29	Shure SM57	"	MSB C13	Snare Bottom
30	Shure Beta98H	"	MSB C14	Tom 1
31	Shure Beta98H	"	MSB C15	Tom 2
32	Shure Beta98H	"	MSB C16	Fl Tom
33	Shure PGA81	Apollo 1	Local 1	OH L
34	Shure PGA81	Apollo 2	Local 2	OH R
35	AKG P120	Apollo 3	Local 3	Timpani 1
36	AKG P120	Apollo 4	Local 4	Timpani 2
37	AKG P170	Apollo 5	Local 5	Vibes
38	AKG P170	Apollo 6	Local 6	Xylo
39	AT2020	Apollo 7	Local 7	Gloc
40	KSM132	Apollo 8	Local 8	Area L
41	KSM132	Apollo 9	Local 9	Area R
42	Rode NT-1	Apollo 10	Local 10	Violin 2
47	Crown PCC 160	Apollo 15	Local 15	Tap 1

Pit Console INPUT Patch

Channel	Type	Output	Patch	Input	Description
Outputs					
1	AUX	MSB 1	Ethernet	Behringer Mon	Pit Mon 1
2	"	MSB 2	"	Behringer Mon	Hair & Make-up Mon
3	"	MSB 3	"	Carver PM900	Backstage Monitors
5	"	Local 1	Brutus 5	NEXO Amp 5 C	Stg Mon 1
6	"	Local 2	Brutus 6	NEXO Amp 5 D	Stg Mon 2
Sub (C)	MAIN	Local 16	->	Vi Local 22	Pit SUB
L/R	MAIN	Local AES 1-2	->	Vi Local AES 1-2	Pit L/R

- NEXO GEO S805 SIDE ARRAYS
- NEXO GEO S805/S830 CENTER ARRAY
- NEXO CD12 SIDE SUBS
- NEXO CD12 CENTER SUB
- NEXO PS8 FRONT FILLS
- NEXO PS8 STAGE MONITORS



LEGEND:

■ NEXO PS8 STAGE MONITORS

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July, 2018

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**GROUND
PLAN
STAGE**

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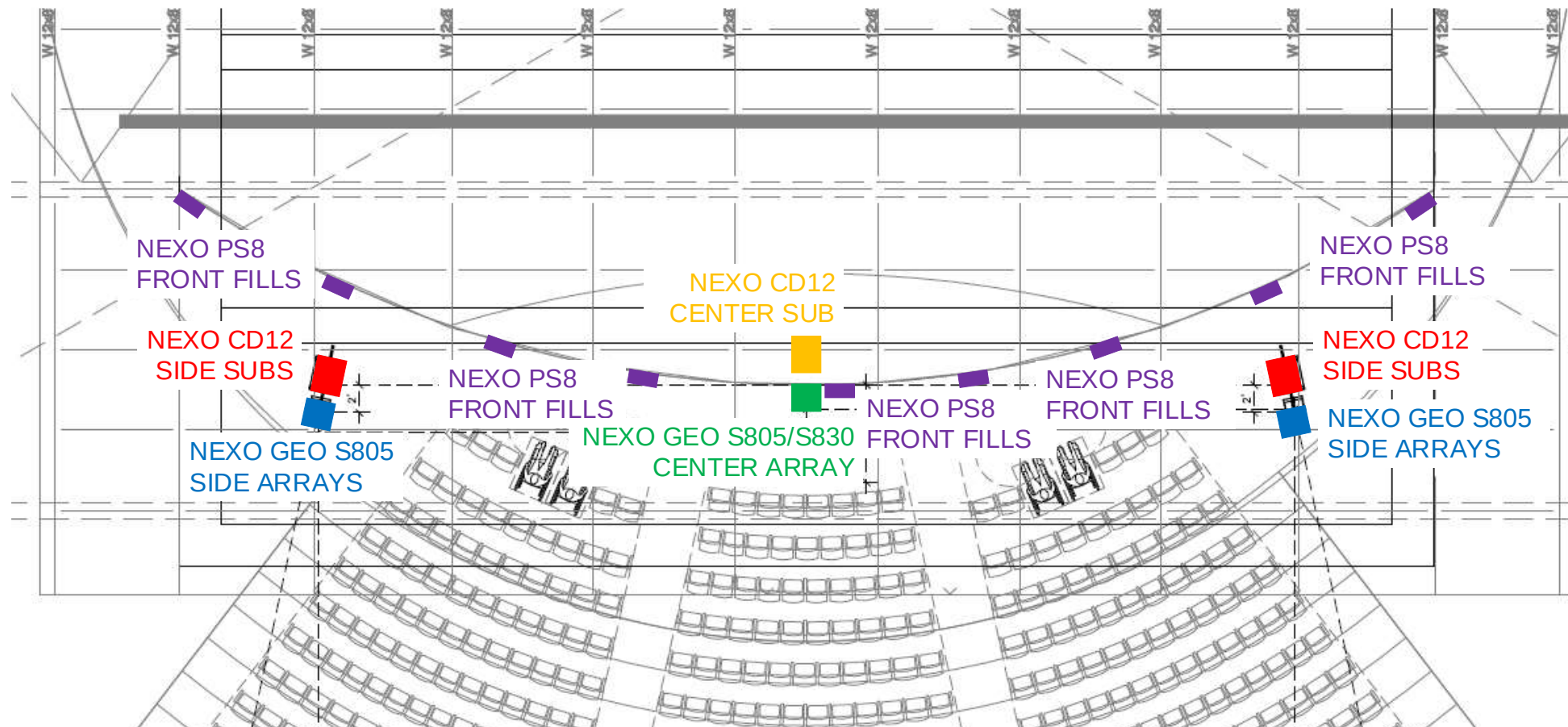
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PLATE #:

8



LEGEND:

- NEXO GEO S805 SIDE ARRAYS
- NEXO GEO S805/S830 CENTER ARRAY
- NEXO CD12 SIDE SUBS
- NEXO CD12 CENTER SUB
- NEXO PS8 FRONT FILLS

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**GROUND
PLAN
HOUSE**

DATES:
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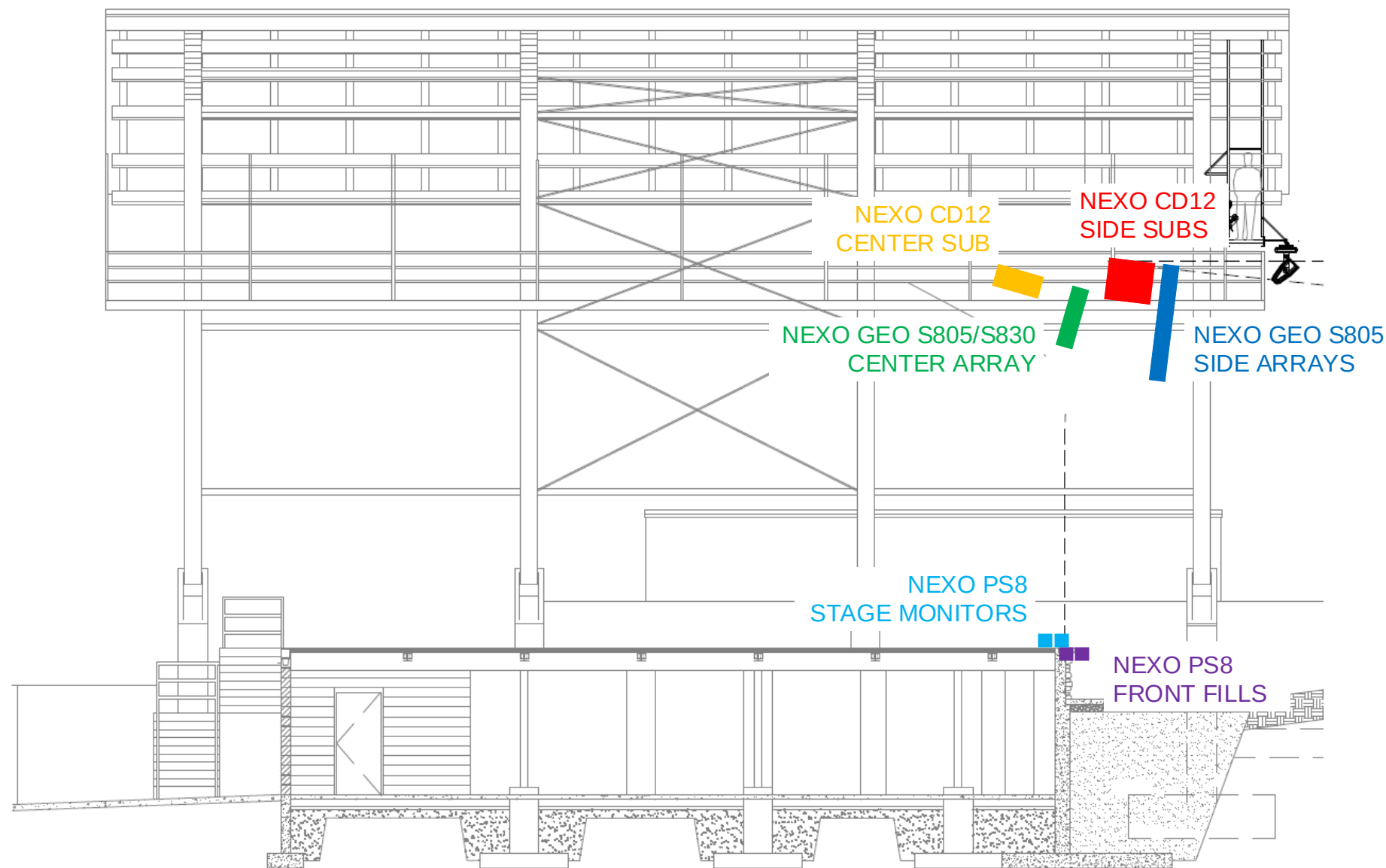
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PLATE #:

13



LEGEND:

- NEXO GEO S805 SIDE ARRAYS
- NEXO GEO S805/S830 CENTER ARRAY
- NEXO CD12 SIDE SUBS
- NEXO CD12 CENTER SUB
- NEXO PS8 FRONT FILLS
- NEXO PS8 STAGE MONITORS

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**SECTION
PLANE
COMPOSITE**

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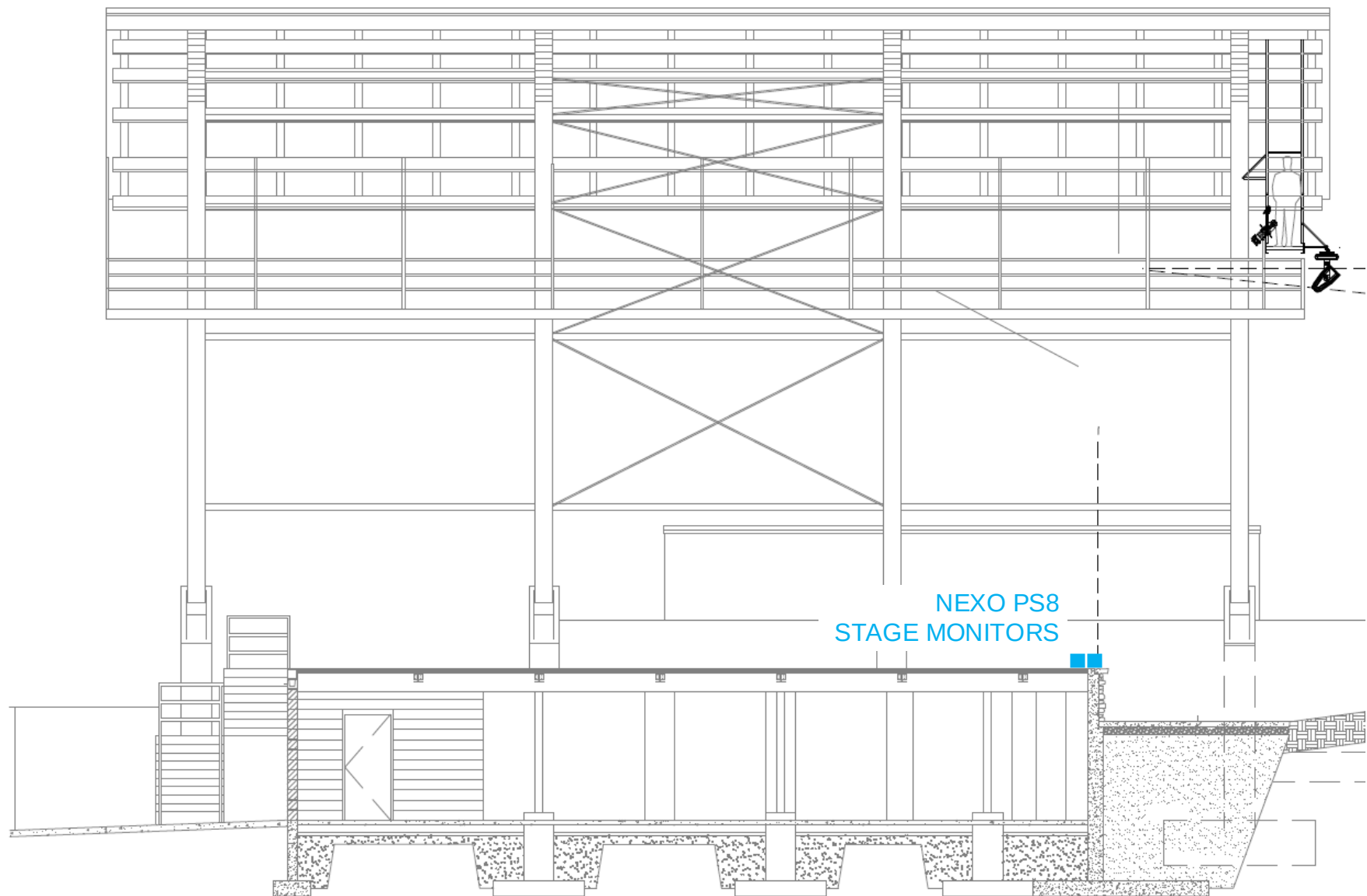
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C EKREN

DATE:
JULY 23RD, 2018

SCALE:
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PLATE #:

14



LEGEND:

■ NEXO PS8 STAGE MONITORS

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TATE T.

SECTION
PLANE STAGE

DATES:
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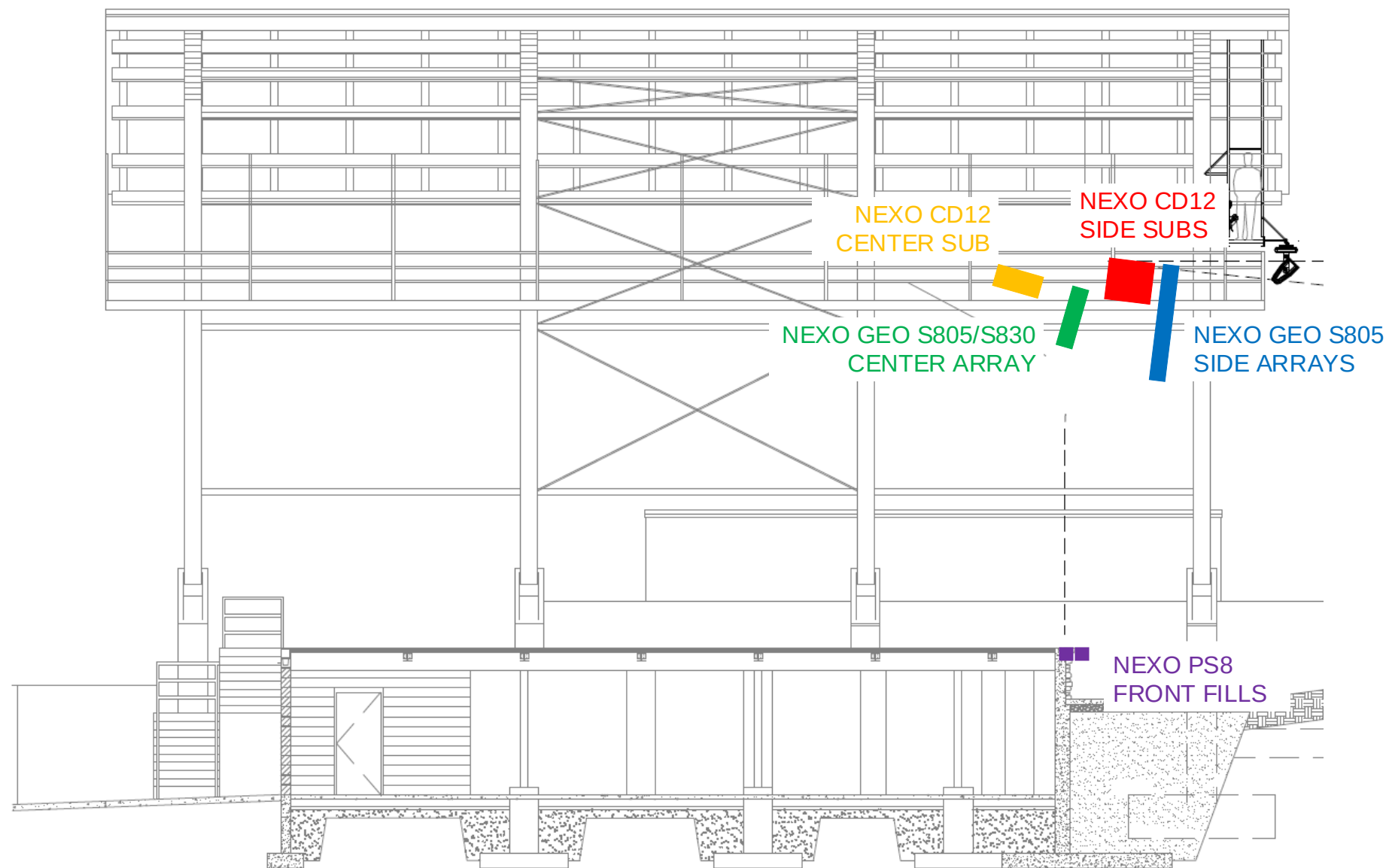
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15



LEGEND:

- NEXO GEO S805 SIDE ARRAYS
- NEXO GEO S805/S830 CENTER ARRAY
- NEXO CD12 SIDE SUBS
- NEXO CD12 CENTER SUB
- NEXO PS8 FRONT FILLS

***“Hello,
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**SOUND
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APRIL P.

**MIC
WRANGLERS:**
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TATE T.

SECTION
PLANE HOUSE

DATES:

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Strike:
JULY 30TH –
AUGUST 2ND, 2018

REVISION:

1st LOOK:
JUNE 1ST, 2018

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DRAWN BY:
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DATE:
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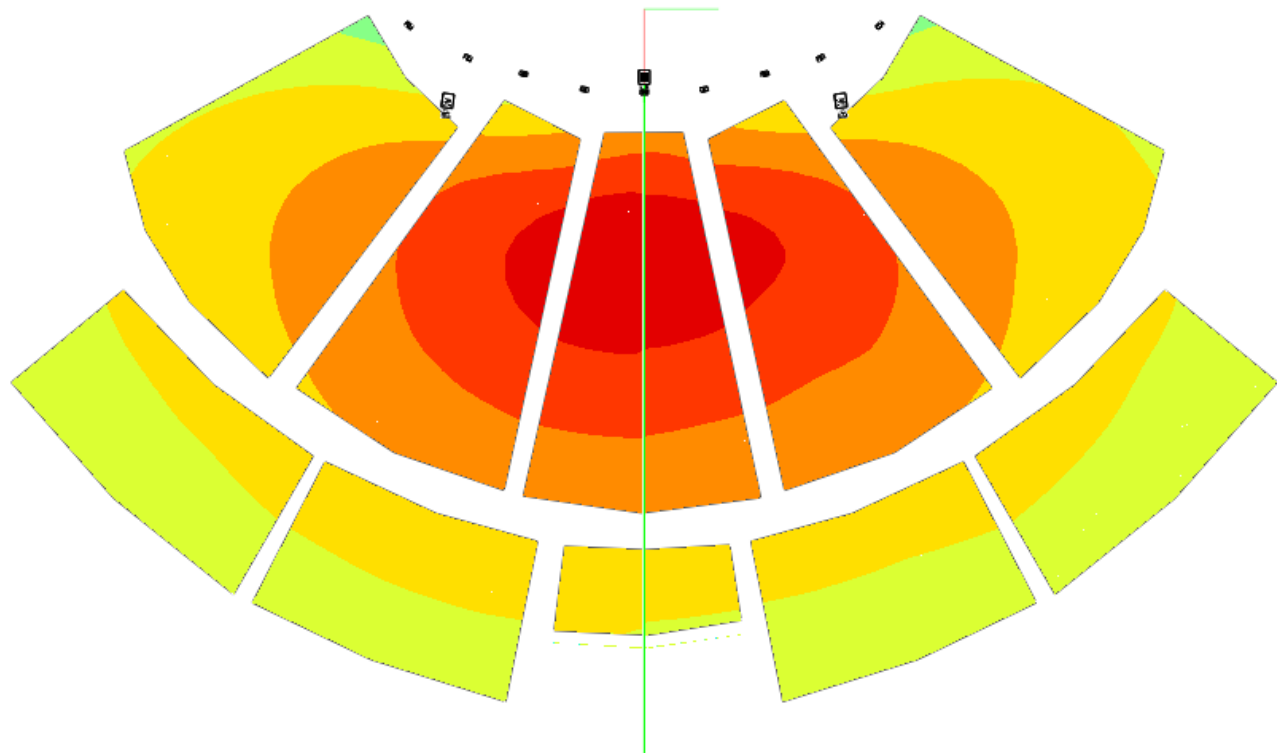
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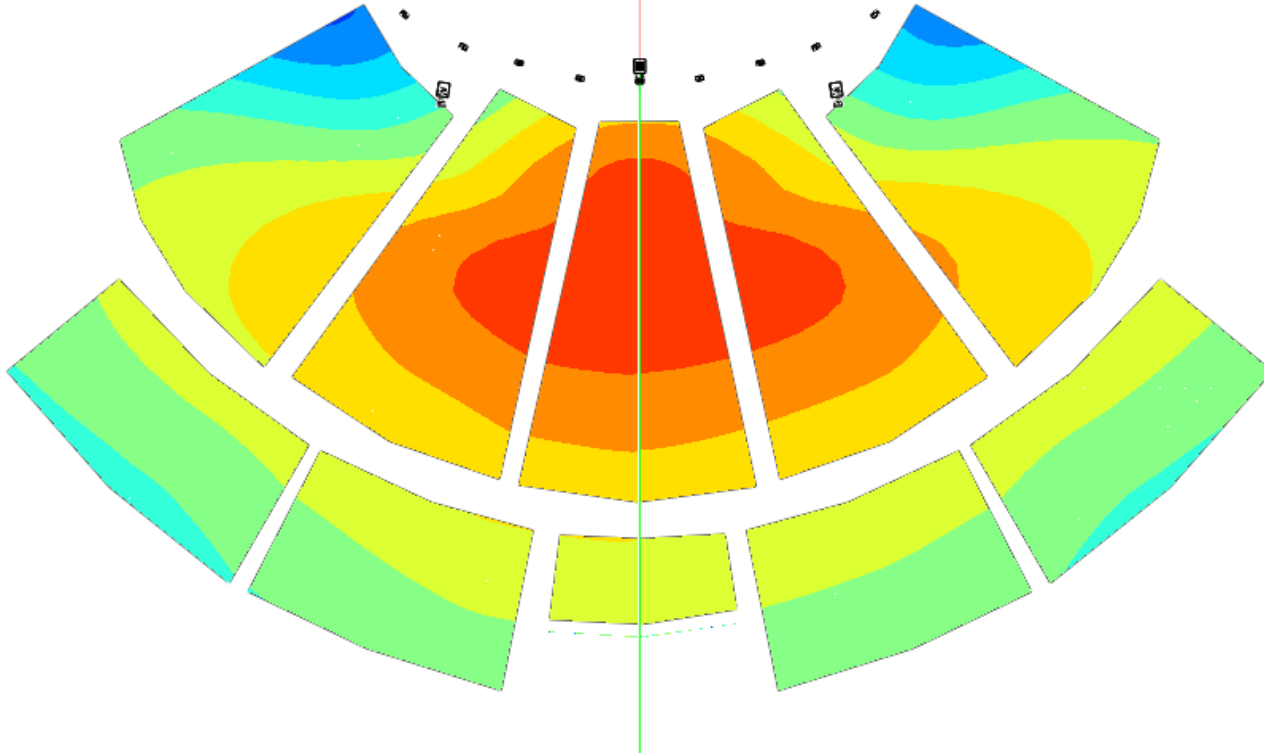
16

Center Cluster Arrays (NEXO GEO S805 x2 /S830 x2 & NEXO CD12 x1)

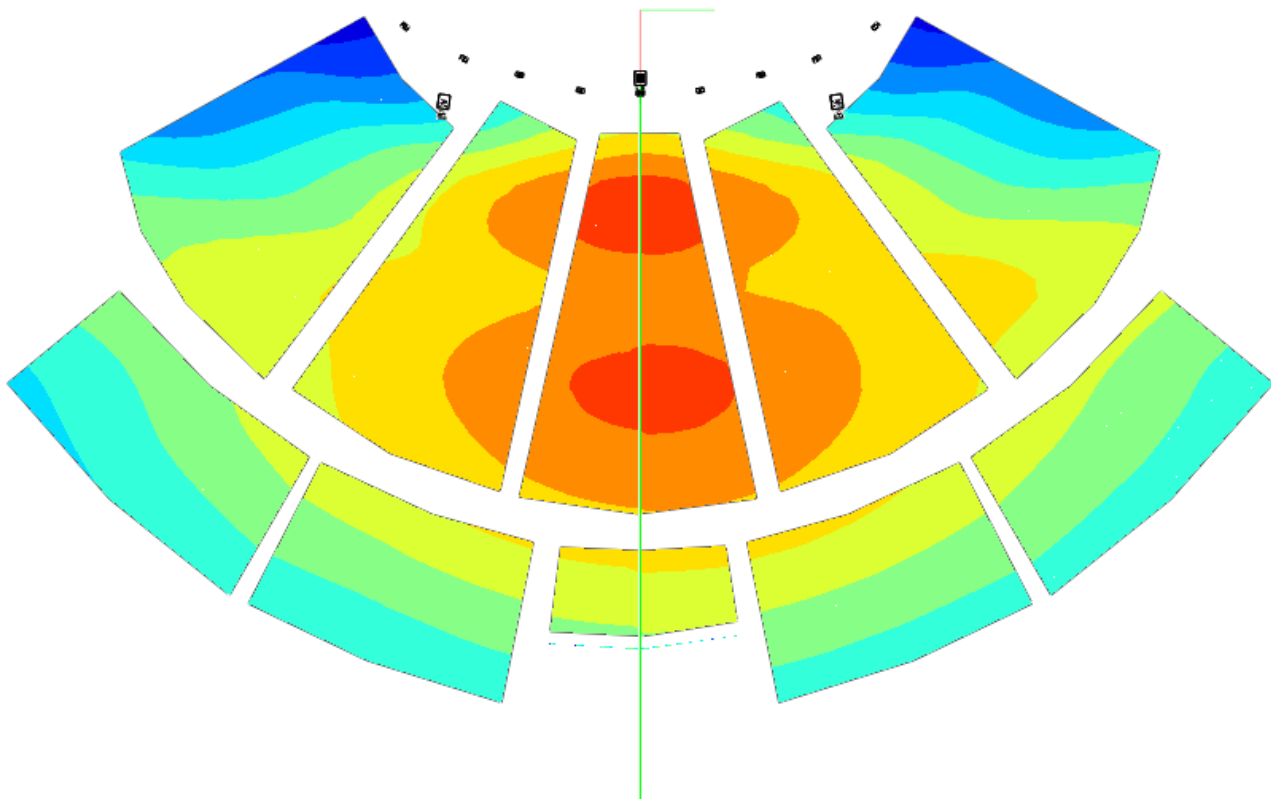
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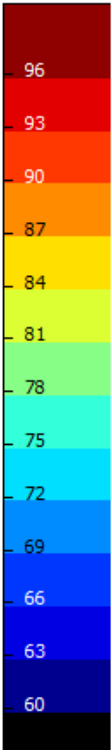
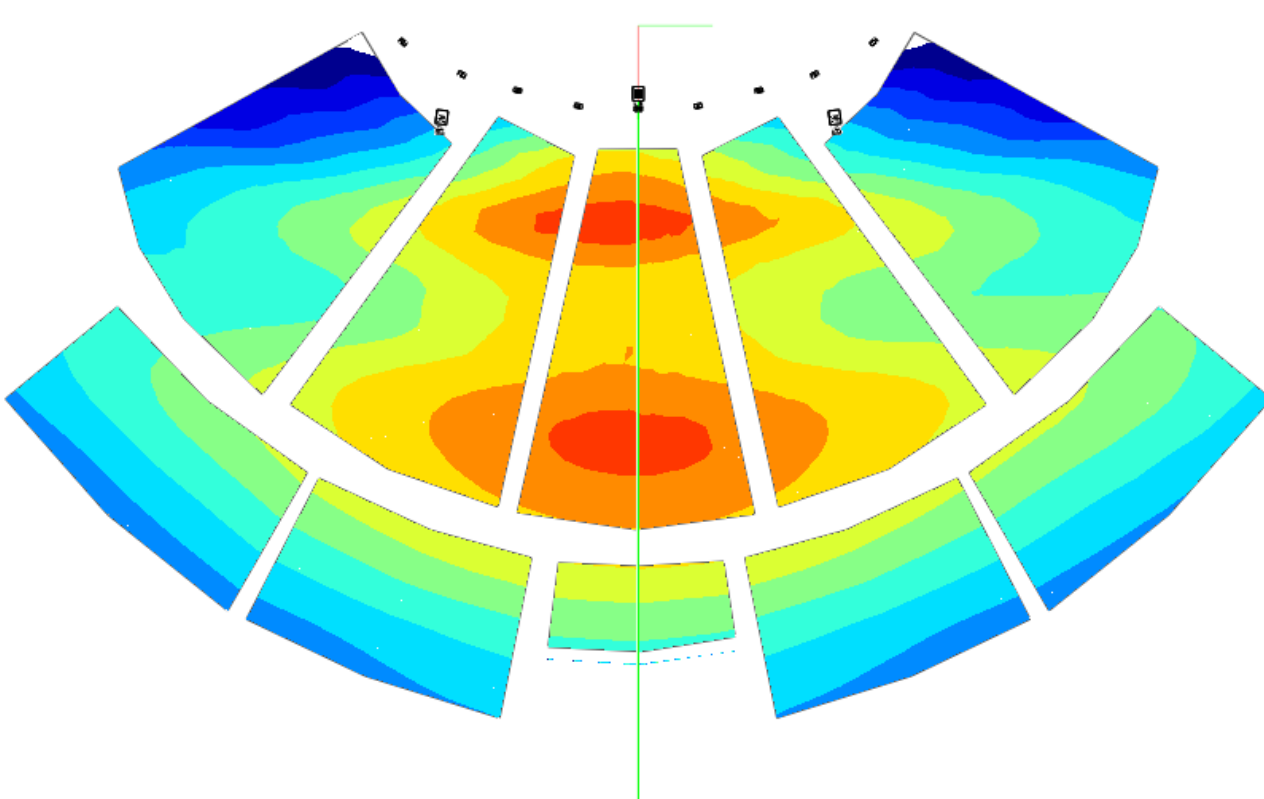
1KHz



2KHz



4KHz



*"Hello,
Dolly!"*
Bluestem
Amphitheatre
Trollwood
Performing
Arts School
July, 2018

ORIGINAL
DRAWING
BY:
CHRISTIAN
EKREN

SOUND
DESIGN:
CHRISTIAN
EKREN

SOUND
MIXERS:
MITCHEL
RIETH
APRIL P.

MIC
WRANGLERS:
VANESSA R.
TATE T.

SPEAKER
COVERAGE –
CENTER
ARRAY

DATES:
Theatre Load In:
JUNE 1ST – JULY
1ST, 2018
Tech:
JULY 2ND – 11TH,
2018
Performance:
JULY 12TH – JULY
29TH, 2018
Strike:
JULY 30TH –
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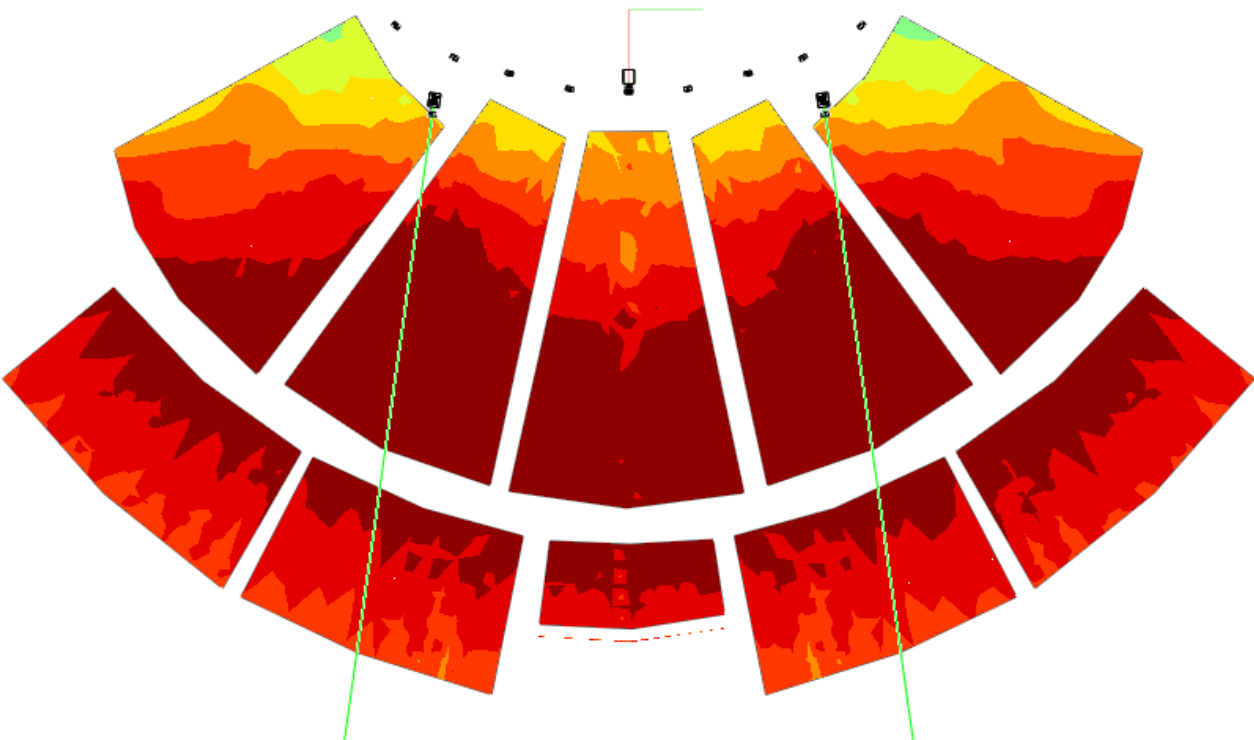
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PLATE #:

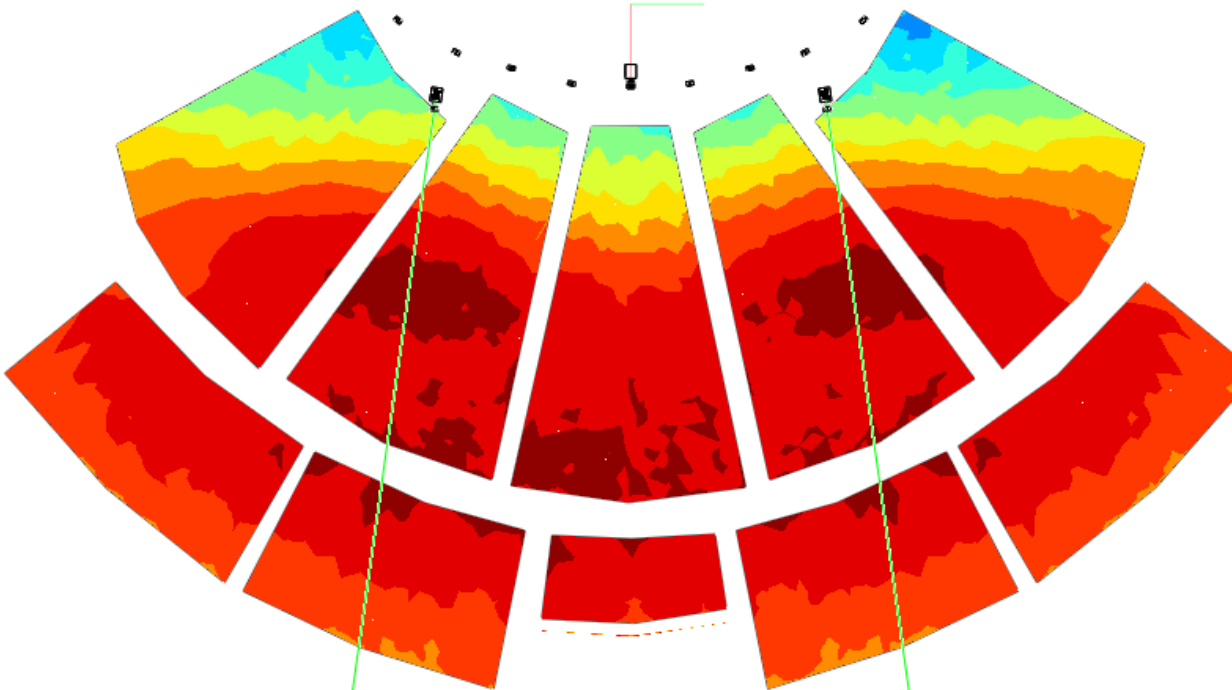
17

Side Fill Arrays (NEXO GEO S805 x10 & NEXO CD12 x2)

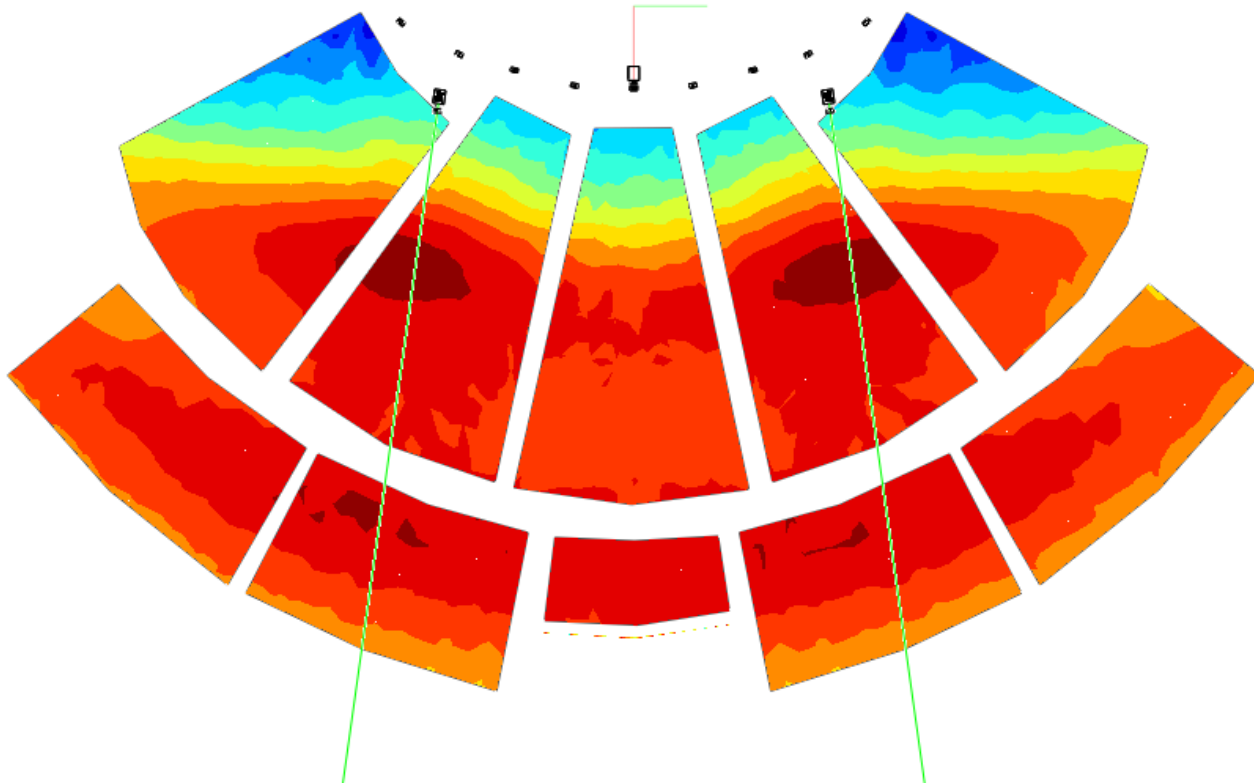
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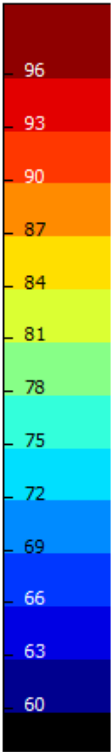
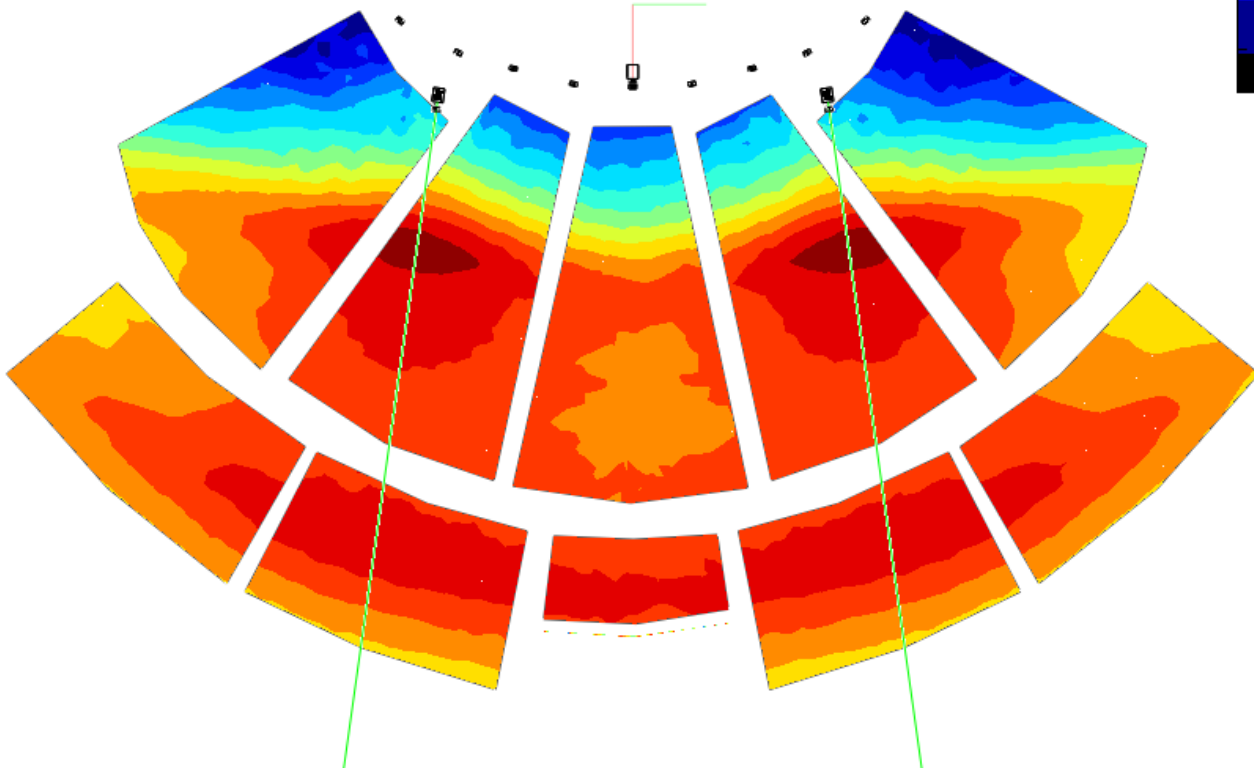
1KHz



2KHz



4KHz



*"Hello,
Dolly!"*

Bluestem
Amphitheatre

Trollwood
Performing
Arts School

July, 2018

ORIGINAL
DRAWING
BY:
CHRISTIAN
EKREN

SOUND
DESIGN:
CHRISTIAN
EKREN

SOUND
MIXERS:
MITCHEL
RIETH
APRIL P.

MIC
WRANGLERS:
VANESSA R.
TATE T.

SPEAKER
COVERAGE -
SIDE ARRAYS

DATES:

Theatre Load In:
JUNE 1ST - JULY
1ST, 2018

Tech:
JULY 2ND - 11TH,
2018

Performance:
JULY 12TH - JULY
29TH, 2018

Strike:
JULY 30TH -
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REVISION:

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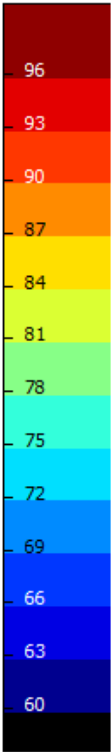
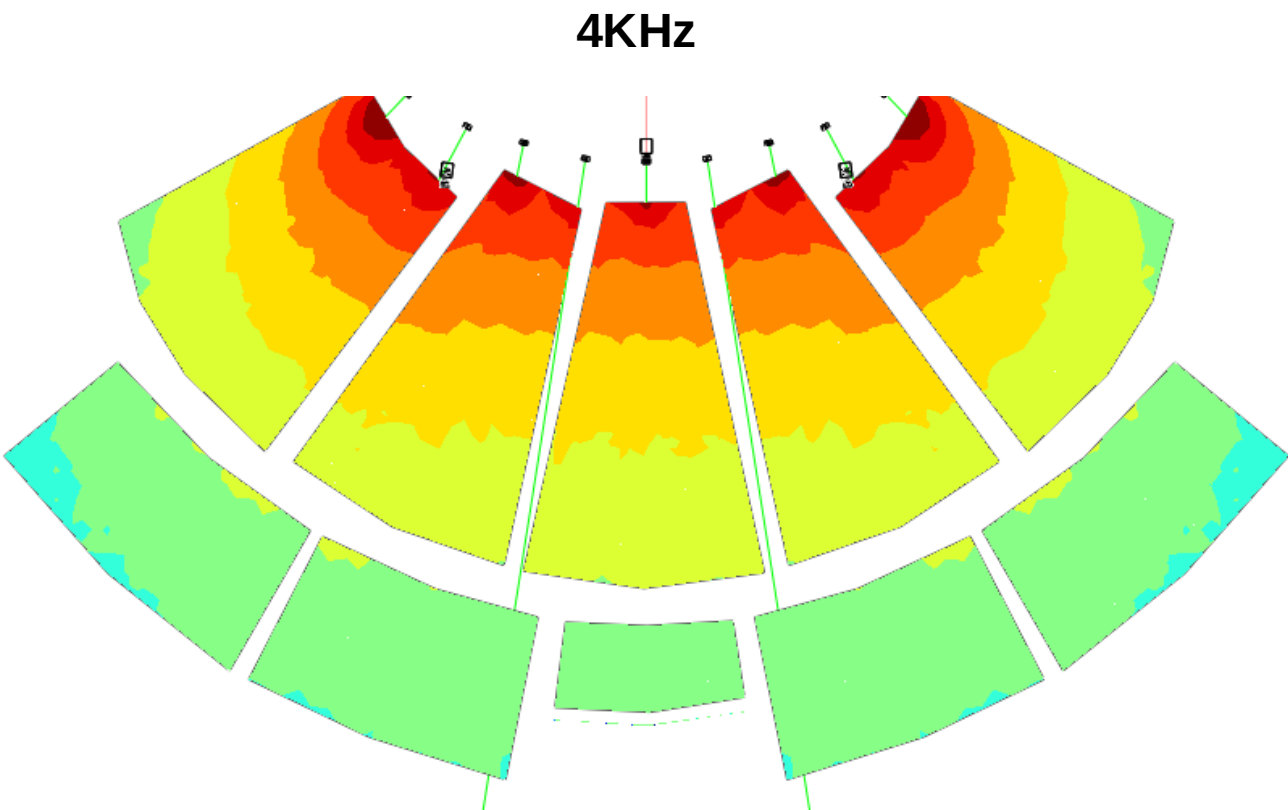
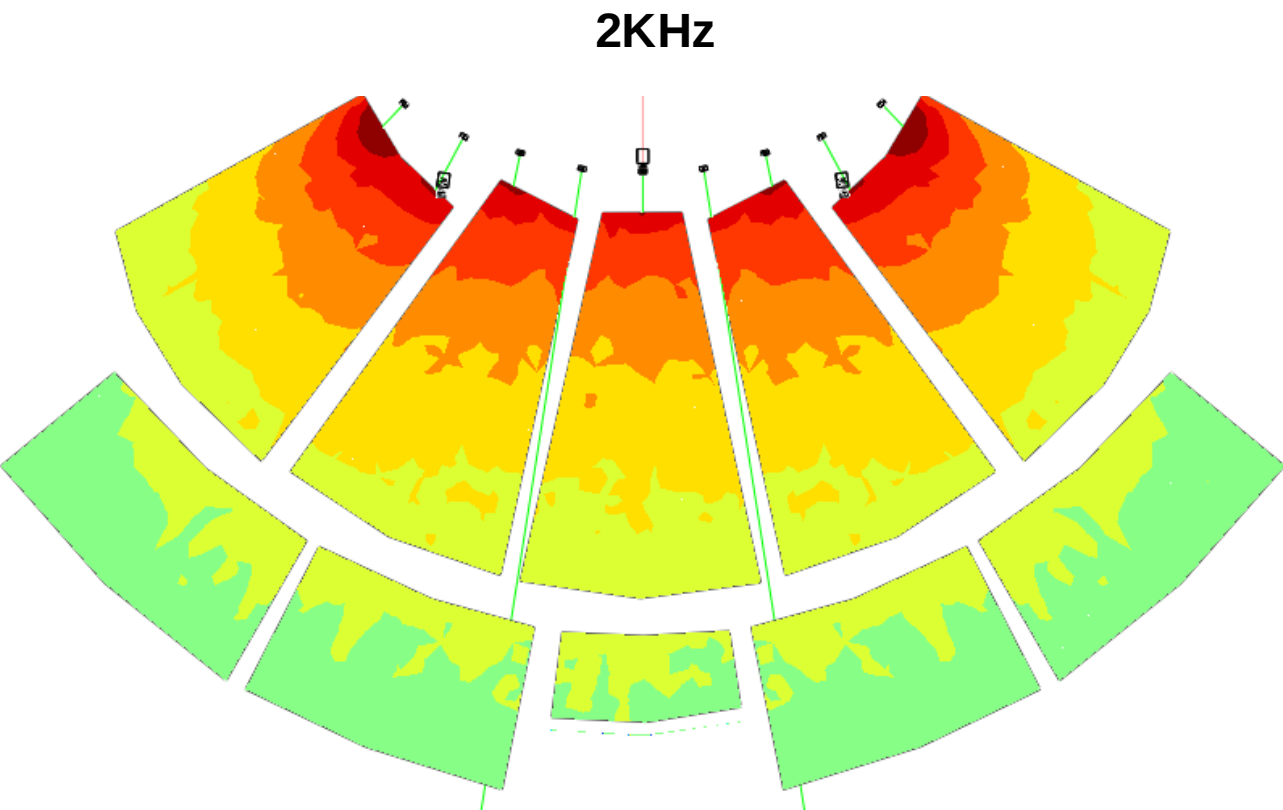
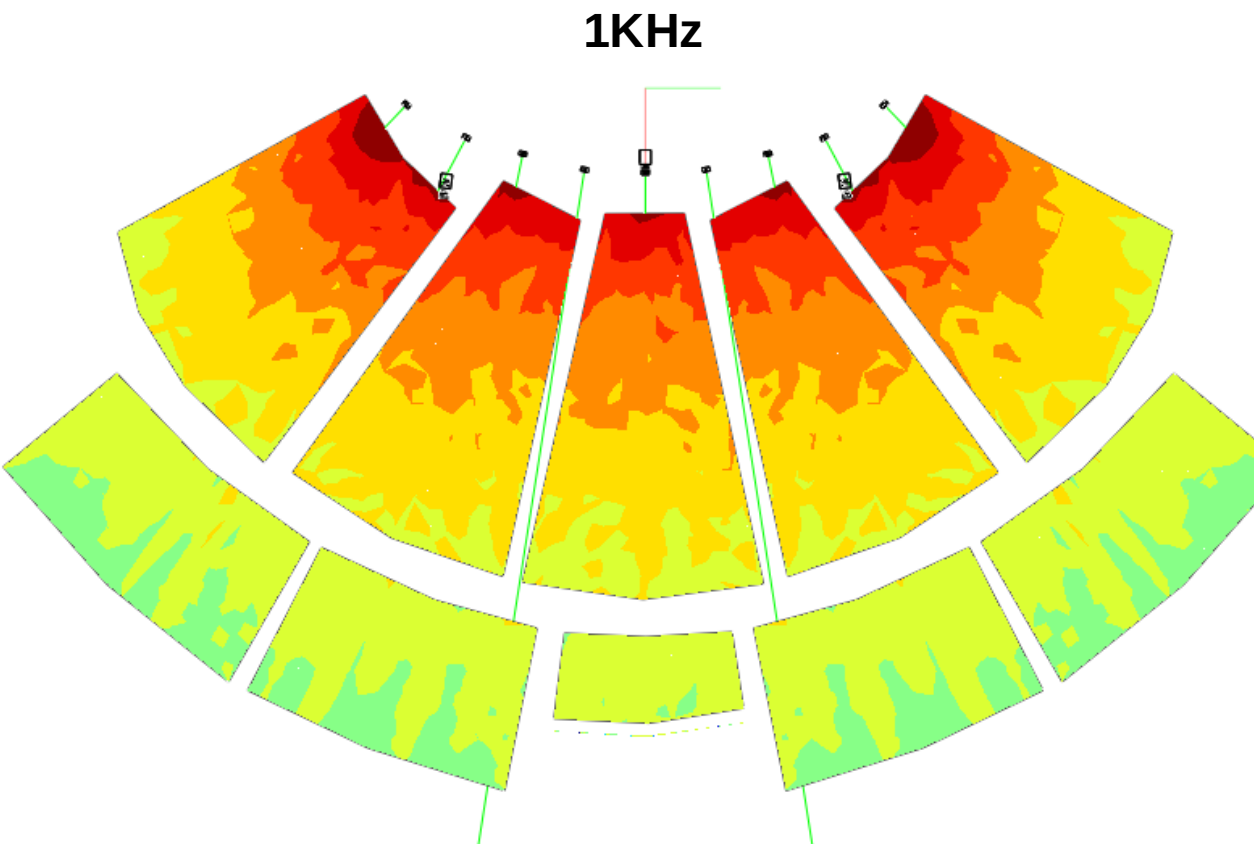
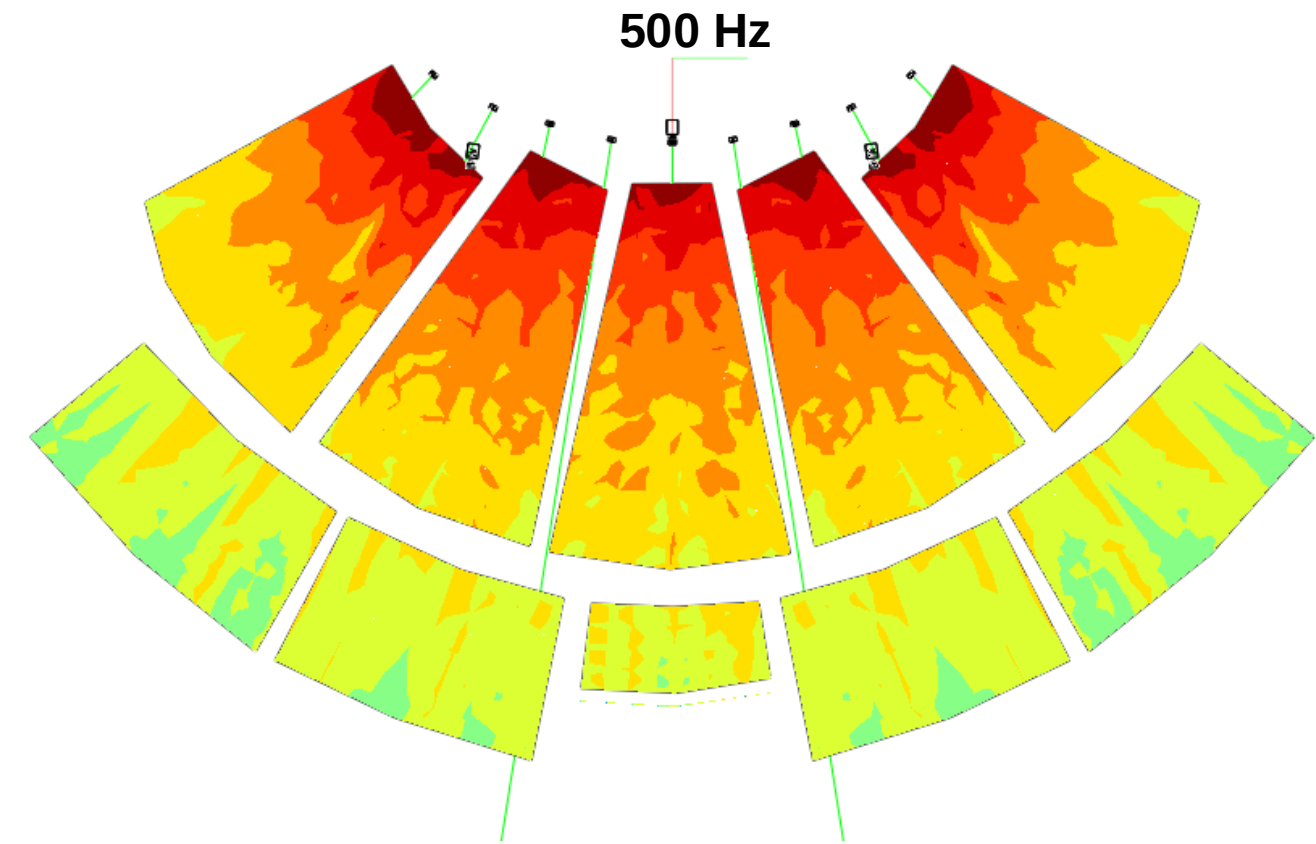
DATE:
JULY 23RD, 2018

SCALE:
NO SCALE

PLATE #:

18

Front Fills (NEXO PS8 x9)



**"Hello,
Dolly!"**

Bluestem
Ampitheatre

Trollwood
Performing
Arts School

July, 2018

**ORIGINAL
DRAWING
BY:**
CHRISTIAN
EKREN

**SOUND
DESIGN:**
CHRISTIAN
EKREN

**SOUND
MIXERS:**
MITCHEL
RIETH
APRIL P.

**MIC
WRANGLERS:**
VANESSA R.
TATE T.

**SPEAKER
COVERAGE –
FRONT FILLS**

DATES:

Theatre Load In:
JUNE 1ST – JULY
1ST, 2018

Tech:
JULY 2ND – 11TH,
2018

Performance:
JULY 12TH – JULY
29TH, 2018

Strike:
JULY 30TH –
AUGUST 2ND, 2018

REVISION:

1st LOOK:
JUNE 1ST, 2018

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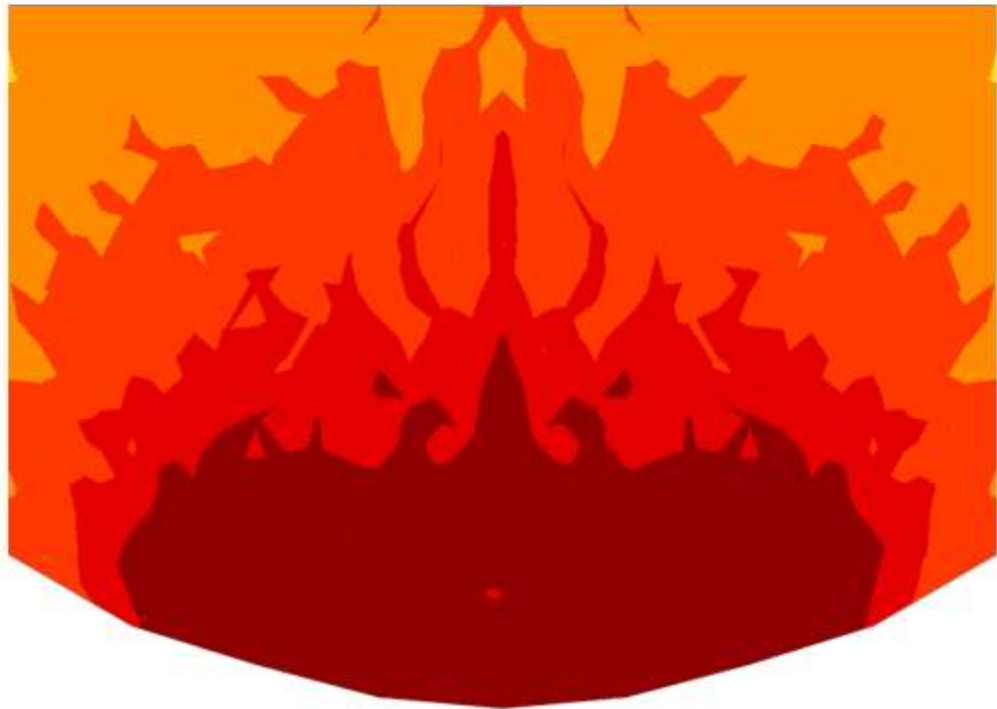
DATE:
JULY 23RD, 2018

SCALE:
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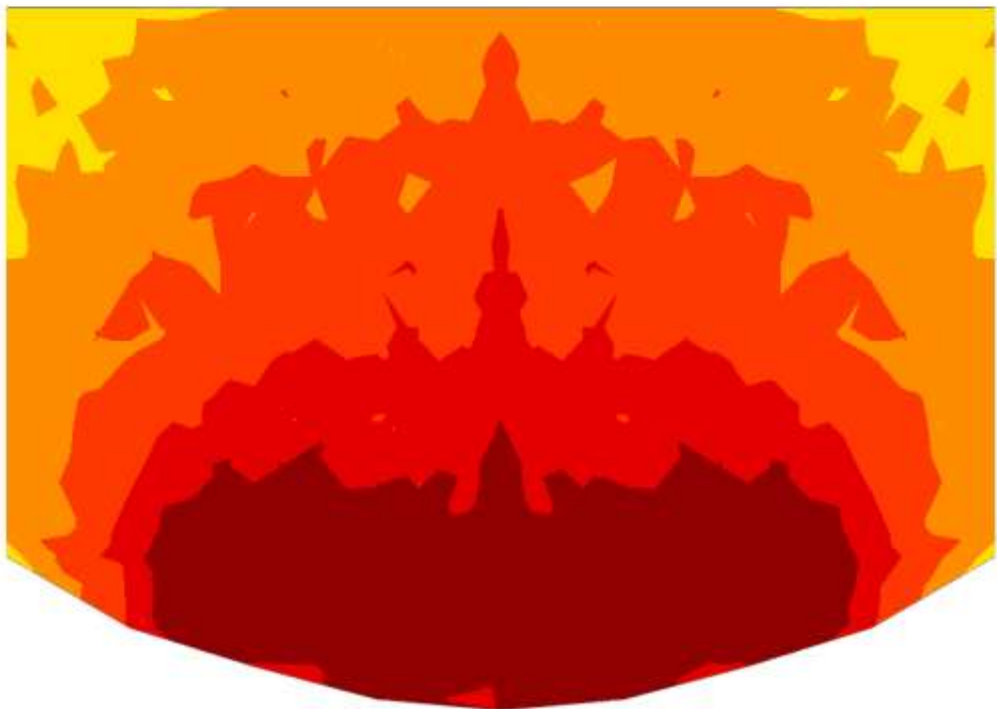
PLATE #:
19

Stage Monitors (NEXO PS8 x4)

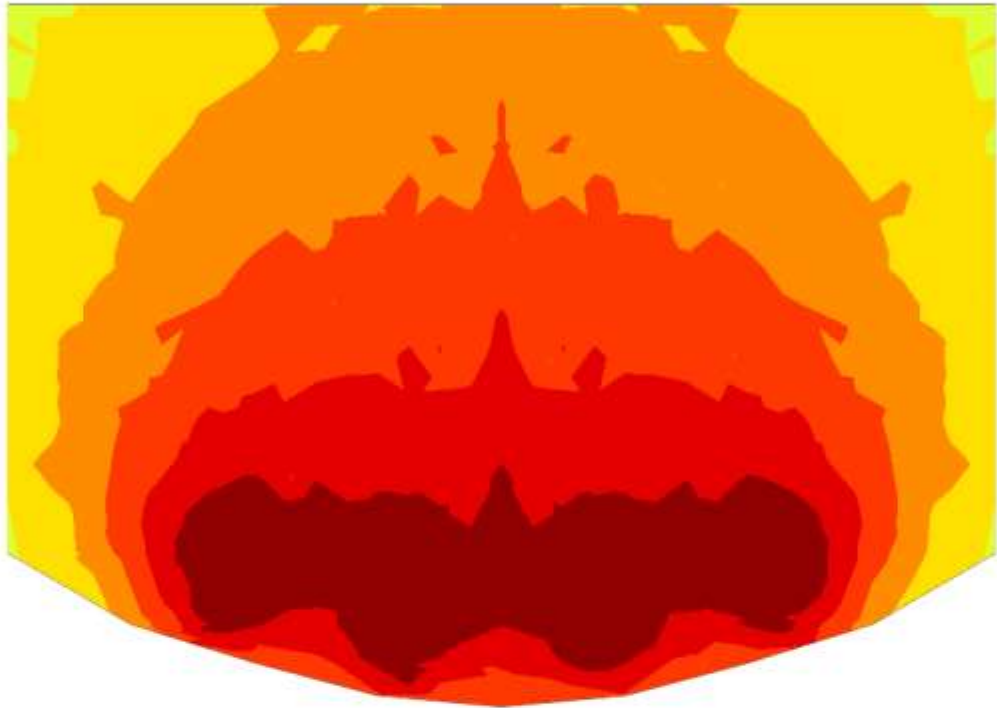
500 Hz



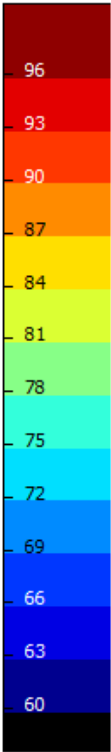
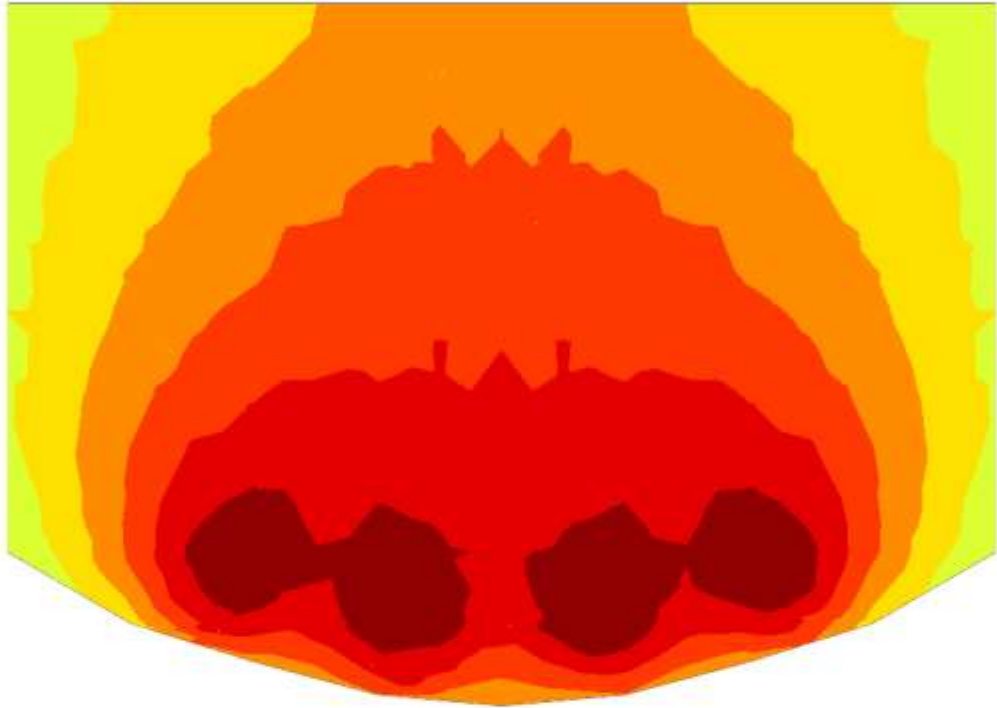
1KHz



2KHz



4KHz



**“Hello,
Dolly!”**

Bluestem
Ampitheatre

Trollwood
Performing
Arts School

July, 2018

**ORIGINAL
DRAWING
BY:**
CHRISTIAN
EKREN

**SOUND
DESIGN:**
CHRISTIAN
EKREN

**SOUND
MIXERS:**
MITCHEL
RIETH
APRIL P.

**MIC
WRANGLERS:**
VANESSA R.
TATE T.

**SPEAKER
COVERAGE –
STAGE
MONITORS**

DATES:

Theatre Load In:
JUNE 1ST – JULY
1ST, 2018

Tech:
JULY 2ND – 11TH,
2018

Performance:
JULY 12TH – JULY
29TH, 2018

Strike:
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AUGUST 2ND, 2018

REVISION:

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JUNE 1ST, 2018

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DATE:
JULY 23RD, 2018

SCALE:
NO SCALE

PLATE #:

20

CLUSTER

Cluster type	C Array
S805 (Main) Qty	2
S830 (Down) Qty	2
Bumper angle	-14.00 deg
Lower cabinet angle	-65.67 deg
Cluster height (H)	4.71 ft
Cluster width (W)	1.97 ft
Cluster depth (D)	4.44 ft
Rear rigging point height	32.36 ft
Front rigging point height	30.49 ft
Lower cabinet height	27.67 ft
Distance between rigging points (A)	4.04 ft
Gravity center to front rigging point (A2)	2.17 ft
Gravity center to rear rigging point (A1)	1.86 ft
Clearance from front rigging point (C2)	0.30 ft
Clearance from rear rigging point (C1)	0.30 ft
Cluster weight (M)	268.96 lb
Weight on front rigging point (M2)	124.09 lb
Weight on rear rigging point (M1)	144.87 lb

FORCES

Allowed loads on bumper rear points S1	-13.70 kN / 9.00 kN
Applied loads on bumper rear points S1	0.43 kN
Allowed loads on bumper front points S2	-13.70 kN / 7.10 kN
Applied loads on bumper front points S2	-0.13 kN
Allowed moment on extension bar	2.40 kNm
Applied moment on extension bar (M0)	0.13 kNm
Allowed moment on link bar	2.40 kNm
Applied moment on link bar (M0)	0.13 kNm
Allowed load on CD12 flying rails	1.90 kN
Applied load on CD12 flying rails (FS3)	0.18 kN
Applied wind force on cluster (Fw)	0.13 kN
Wind offset angle	-11.67 deg

SETTINGS

Rigging mode	CD12 link bar
Wind type	From front
Wind speed	72 km/h B8
Cluster secured	No
Qty sub CD12	1

ANGLE SEQUENCE

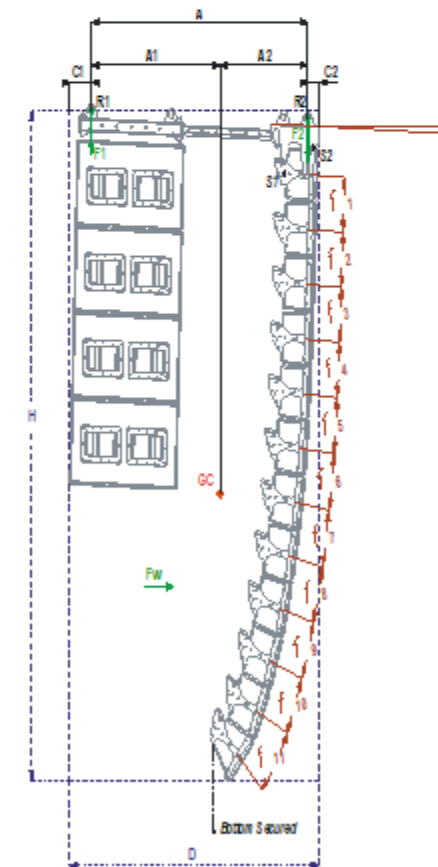
#	Delta	Sum
Bumper	-14.00	-25.67
1	5.00	-30.67
2	17.50	-48.17
3	17.50	-65.67

WORKING LOAD - SAFETY FACTOR

% allowed working load (safety factor 1.5)	9
Safety factor for 100% allowed working load	15.9
Lifting factor	1.0

CAUTION

READ USER MANUAL PRIOR TO OPERATION
CHECK LOCAL REGULATIONS ON LOUDSPEAKER RIGGING SYSTEMS
MOTORS MUST BE DIMENSIONED FOR TOTAL CLUSTER WEIGHT
ENSURE THE ANGLES SETTINGS ARE IDENTICAL ON BOTH SIDES
CHECK WITHOUT WINDFORCES

GPS Speaker ☒ Mechanics

OK

Cancel

Help

**"Hello,
Dolly!"**Bluestem
AmphitheatreTrollwood
Performing
Arts School

July, 2018

**ORIGINAL
DRAWING**
BY:
CHRISTIAN
EKREN**SOUND
DESIGN:**
CHRISTIAN
EKREN**SOUND
MIXERS:**
MITCHEL
RIETH
APRIL P.**MIC
WRANGLERS:**
VANESSA R.
TATE T.**CENTER
CLUSTER
RIGGING DATA****DATES:****Theatre Load In:**
JUNE 1ST - JULY
1ST, 2018**Tech:**
JULY 2ND - 11TH,
2018**Performance:**
JULY 12TH - JULY
29TH, 2018**Strike:**
JULY 30TH -
AUGUST 2ND, 2018**REVISION:****1st LOOK:**
JUNE 1ST, 2018**FINAL
COPY:**
JULY 23RD, 2018**DRAWN BY:**
C EKREN**DATE:**
JULY 23RD, 2018**SCALE:**
NO SCALE**PLATE #:****21**

System - GEO S8 Flown Cluster

CLUSTER

Cluster type	HL Array
S805 (Main) Qty	10
Bumper angle	-7.00 deg
Lower cabinet angle	-35.15 deg
Cluster height (H)	8.60 ft
Cluster width (W)	1.97 ft
Cluster depth (D)	4.88 ft
Rear rigging point height	31.43 ft
Front rigging point height	30.95 ft
Lower cabinet height	22.77 ft
Distance between rigging points (A)	4.42 ft
Gravity center to front rigging point (A2)	1.69 ft
Gravity center to rear rigging point (A1)	2.73 ft
Clearance from front rigging point (C2)	0.33 ft
Clearance from rear rigging point (C1)	0.33 ft
Cluster weight (M)	440.92 lb
Weight on front rigging point (M2)	272.57 lb
Weight on rear rigging point (M1)	168.35 lb

FORCES

Allowed loads on bumper rear points S1	-13.70 kN / 9.00 kN
Applied loads on bumper rear points S1	0.15 kN
Allowed loads on bumper front points S2	-13.70 kN / 7.10 kN
Applied loads on bumper front points S2	0.78 kN
Allowed moment on extension bar	2.40 kNm
Applied moment on extension bar (M0)	-0.06 kNm
Allowed moment on link bar	2.40 kNm
Applied moment on link bar (M0)	-0.06 kNm
Allowed load on CD12 flying rails	1.90 kN
Applied load on CD12 flying rails (FS3)	0.18 kN
Applied wind force on cluster (Fw)	0.32 kN
Wind offset angle	0.00 deg

SETTINGS

Rigging mode	CD12 link bar
Wind type	From front
Wind speed	72 km/h B8
Cluster secured	From top
Qty sub CD12	1

WORKING LOAD - SAFETY FACTOR

% allowed working load (safety factor 1.5)	11
Safety factor for 100% allowed working load	13.6
Lifting factor	1.0

CAUTION

READ USER MANUAL PRIOR TO OPERATION
CHECK LOCAL REGULATIONS ON LOUDSPEAKER RIGGING SYSTEMS
MOTORS MUST BE DIMENSIONED FOR TOTAL CLUSTER WEIGHT
ENSURE THE ANGLES SETTINGS ARE IDENTICAL ON BOTH SIDES
CHECK WITHOUT WINDFORCES

ANGLE SEQUENCE

#	Delta	Sum
Bumper	-7.00	-7.00
1	1.25	-8.25
2	1.25	-9.50
3	1.25	-10.75
4	1.25	-12.00
5	3.15	-15.15
6	5.00	-20.15
7	5.00	-25.15
8	5.00	-30.15
9	5.00	-35.15

GPS Speaker Mechanics

OK Cancel Help

“Hello,
Dolly!”

Bluestem
Amphitheatre

Trollwood
Performing
Arts School

July, 2018

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DRAWING
BY:
CHRISTIAN
EKREN

SOUND
DESIGN:
CHRISTIAN
EKREN

SOUND
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MITCHEL
RIETH
APRIL P.

MIC
WRANGLERS:
VANESSA R.
TATE T.

SIDE FILL
RIGGING DATA

DATES:
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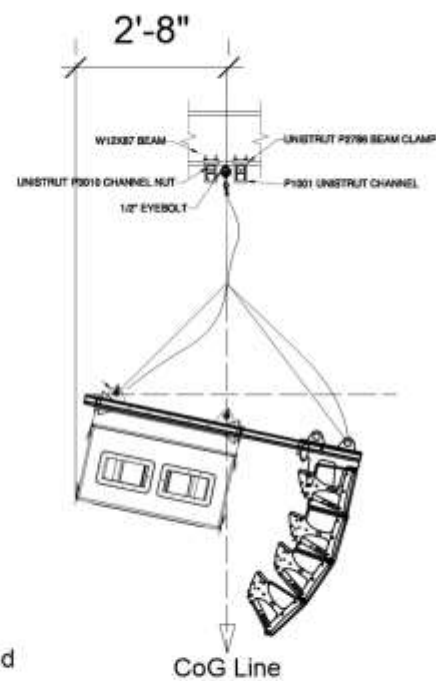
DATE:
JULY 23RD, 2018

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PLATE #:

22

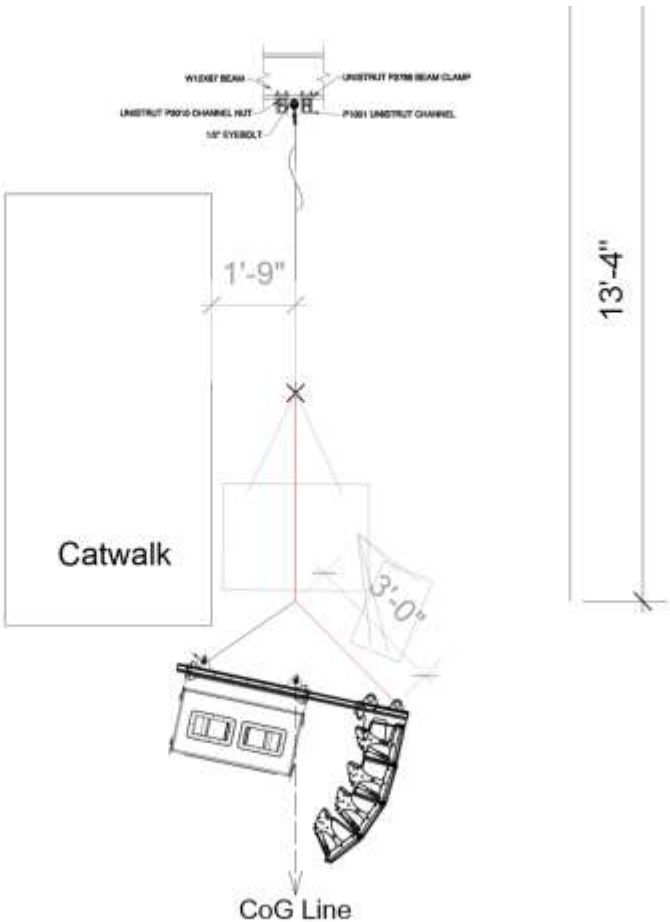
Center Cluster
Side View



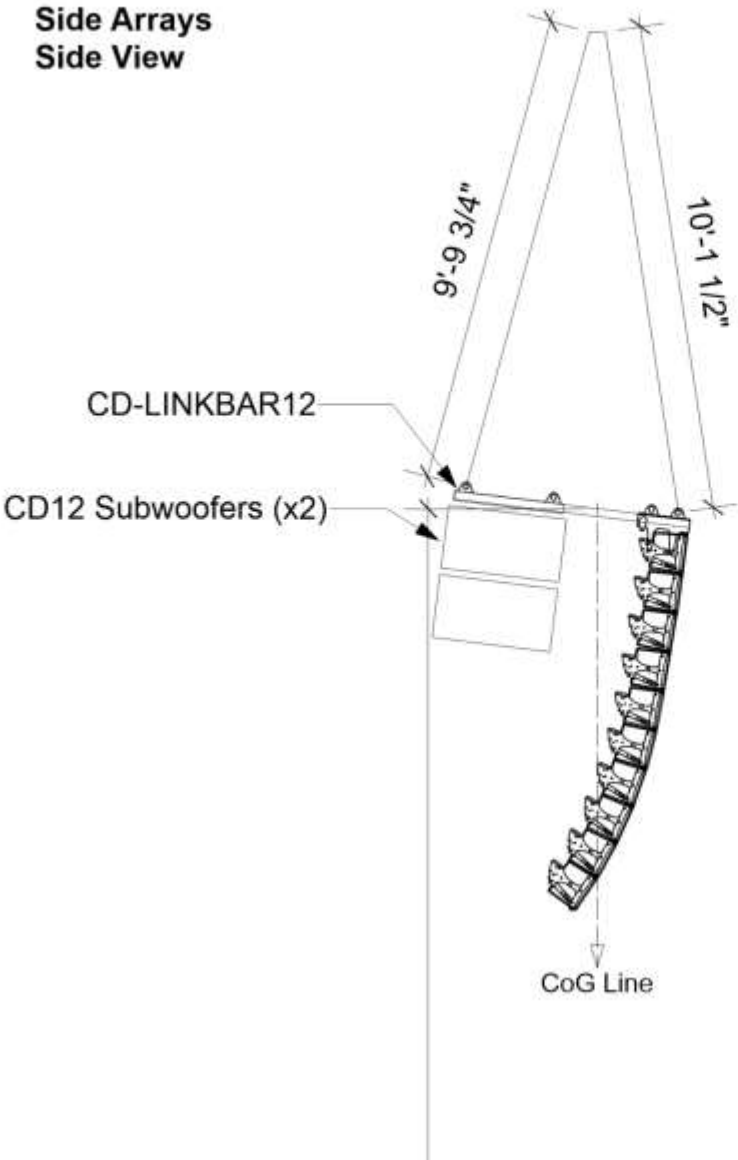
Box Angle Schedule:

#	Model	Angle
1	S805	0.000
2	S805	-5.000
3	S830	-17.50
4	S830	-17.50

*Guy wire as needed
to stabilize



Side Arrays
Side View



Box Angle Schedule:

#	Model	Angle
1	S805	0.00
2	S805	-1.25
3	S805	-1.25
4	S805	-1.25
5	S805	-1.25
6	S805	-3.50
7	S805	-5.00
8	S805	-5.00
9	S805	-5.00
10	S805	-5.00

“Hello,
Dolly!”

Bluestem
Amphitheatre

Trollwood
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Arts School

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ORIGINAL
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BY:
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EKREN

SOUND
DESIGN:
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RIETH
APRIL P.

MIC
WRANGLERS:
VANESSA R.
TATE T.

CLUSTER
RIGGING DATA

DATES:
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DATE:
JULY 23RD, 2018

SCALE:
NO SCALE

PLATE #:

23

TPAS 2018 – Hello, Dolly! | MIDI CONTROL SCHEDULE

Cue #	Tx Device	Rx Device	Channel	Command	Value 1	Description
Q00	Qlab	Vi1	2	Prog Chng	4	Start house music
Q11	Vi1	Qlab	1	Prog Chng	1	End house music
Q395	Qlab	Vi1	2	Prog Chng	2	Start intermission music
Q396	Qlab	Vi1	2	Prog Chng	5	End intermission music
Q665	Qlab	Vi1	1	Prog Chng	10	Start Pit Recording
Q670	Qlab	Vi1	2	Prog Chng	3	Start post show music
Q670.1	Vi1	Qlab	1	Prog Chng	5	End post show music
DANTE IN	Qlab	Vi1	1	Prog Chng	0	Virtual soundcheck patch
NORMAL PATCH	Qlab	Vi1	1	Prog Chng	1	Normal patch
ESTOP	Qlab	Vi1	2	Prog Chng	1	E-STOP

TPAS 2018 – Hello, Dolly! | SOUND EFFECT CUE SCHEDULE

Cue #	Page	Description	Trigger
Q00	PRE	House Music Start	~7:30pm
Q01	PRE	House Announce 1	~7:35pm
Q02	PRE	House Announce 2	~7:45pm
Q03	PRE	House Announce 3	~8:15pm
Q47	4	Street SFX	Last line “I Put My Hand In” – “I PUT MY HAND IN THERE...”
Q65	6	Shop bell entrance	Visual – background character enters SL
Q68	6	Shop bell entrance	Visual – background character enters SL
Q72	7	Shop bell entrance	Visual – background character enters SL
Q73	7	Shop bell entrance	Visual – background character enters SL
Q93	9	Shop bell entrance	Visual – DOLLY enters SL, “Congratulations!...”
Q94	9	Shop bell entrance	Visual – background character enters SL
Q105	10	Shop bell entrance	Visual – background character enters SL
Q122	12	Shop bell entrance	Visual – background character enters SL
Q150	15	Shop bell exit	Visual – DOLLY exits SL
Q151	15	Can explosion (x1)	Stage Direction – (A bang from underneath)
Q155	15	Can explosion (x5)	Stage Direction – (Five Explosions)
Q178	17	Train whistle	Visual - As VANDERGELDER begins to cross from SL as part of train
Q187	18	Shop bell entrance	Visual – background character enters SL
Q191	19	Shop bell entrance	Visual – background character enters SL
Q192	19	Shop bell entrance	Visual – background character enters SL
Q193	19	Shop bell entrance	Visual – IRENE enters SL
Q194	19	Shop bell entrance	Visual – background character enters SL
Q195	19	Shop bell entrance	Visual – background character enters SL
Q215	21	Shop bell entrance	Visual – background character enters SL
Q216	21	Shop bell entrance	Visual – background character enters SL
Q217	21	Shop bell entrance	Visual – background character enters SL
Q227	22	Shop bell entrance	Visual – CORNELIUS and BARNABY enter SL
Q263	26	Shop bell entrance	Visual – VANDERGELDER enters SL
Q276	27	Shop bell entrance	Visual – DOLLY enters SL
Q317	31	Shop bell exit	Visual – VANDERGELDER exits SL
Q395	INT	Intermission House Announce & Music	~Beginning of intermission
Q396	INT	End Intermission Music	~End of intermission
Q632	63	Shop bell entrance	Visual – DOLLY enters SL
Q645	64	Shop bell entrance	Visual – Wall Paper Installer enters SL
Q665	66	PIT RECORDING 1	Pit No.18 Finale Ultimo
Q669	66	PIT RECORDING 2	Pit Bow Music
Q670	POST	Postshow Announce & Music	~After bows/house lights up